

## Patent Search Results

13/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Data and control information transmission method for computer network, involves providing impression to server and client that transmission of control and data information are transparent and occur through network proxy**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM)

Inventor: BUSSANI A; ROONEY S

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080082674	A1	20080403	US 2002324376	A	20021219	200828	B
			US 2007930043	A	20071030		

### Abstract:

for transmitting data and control information within a computer network by using transmission protocols e.g. Real Time Streaming Protocol (RTSP), Real Time Protocol (RTP), **User Datagram Protocol (UDP)** and **Transmission Control Protocol (TCP)**... .. ADVANTAGE - The method facilitates **transmission of the data information directly** and without any additional delay due to the network proxy such that the throughput of the data information is maintained to establish a continuous data... transmitting the data information from the server to the client not via the network proxy. This system has the advantage that, on one hand, the **data information is transmitted directly** and therefore without any additional delay due to the network proxy, so that the throughput of the data information is maintained. In particular, a video... Basic Derwent Week: 200828

13/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Protocol e.g. internet control message protocol, diagnostic system for facilitating e.g. self-healing, has diagnostics engine for determining condition of network connectivity, and for storing information associated with protocols**

Patent Assignee: MICROSOFT CORP (MCT)

Inventor: BROOKING A W; HARDING D H; MCNELIS J J; ZITEK W O

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7313613	B1	20071225	US 200238246	A	20020103	200805	B

### Abstract:

protocol e.g. data link switching client access protocol (DCAP), layer 2 tunneling protocol (L2TP), dynamic host configuration protocol (DHCP), Internet control message protocol (ICMP), **user datagram protocol (UDP)**, Internet group management protocol (IGMP), multicast address resolution server (MARS) protocol, protocol independent multicast-spare mode (PIM-SM) protocol, routing information protocol (RIP), resource reservation... .. GRE) protocol, interior gateway routing (IGRP), non-broadcast, multi-access address resolution protocol (NARP), next hop resolution protocol (NHRP), open shortest path first (OSPF), reliable **UDP (RUDP)**, transport adapter layer interface (TALI) protocol, van jobson compressed **transmission control protocol (TCP)** protocol, lightweight directory access protocol (LDAP), common open policy service (COPS) protocol, file transfer protocol (FTP), trivial file transfer protocol (TFTP), finger user information protocol... facilitating network diagnostics and self-healing is provided. The invention includes a data stream monitor component adapted to selectively copy protocol specific subset(s) of **raw network data** and **provide the**

subset(s) of data to a diagnostics engine. The invention further includes a diagnostic engine adapted to facilitate network diagnostics and/or self-healing... Basic Derwent Week: 200805

13/3,K/4 (Item 4 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Audio and video data transferring method in business, involves using multicast protocol and error corrector to transfer audio and video data in uncompressed form without loss**

Patent Assignee: SUPRACOMM INC (SUPR-N); RIDEOUT N (RIDE-I)

Inventor: RIDEOUT N

Patent Family ( 4 patents, 104 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004044710	A2	20040527	WO 2003US36349	A	20031112	200441	B
AU 2003295515	A1	20040603	AU 2003295515	A	20031112	200470	E
AU 2003295515	A8	20051103	AU 2003295515	A	20031112	200629	E
US 20070005804	A1	20070104	US 2002425621	P	20021111	200703	E
			WO 2003US36349	A	20031112		
			US 2006534370	A	20060703		

#### Abstract:

NOVELTY - The audio and video data are transferred in **uncompressed** form through a network such as Internet, using a multicast protocol like **user datagram protocol ( UDP)**. The packet loss is reduced using an error corrector during transferring the audio and video data. .... network such as local area network (LAN), Internet, wide area network (WAN), control area network (CAN), wireless application protocol (WAP) using said multicast protocol such as **transmission control protocol (TCP)**, **user datagram protocol (UDP)**, **bi-directional delivery protocol (BDP)** in computer system for video conference, business, education and personal use... the invention is a method of transferring data. The method includes receiving a first video data stream at a first machine. The method also includes **multicasting** the first **video data stream** in **uncompressed** and **raw** form through a network. The method further includes receiving the first video data stream at a second machine. The method also includes playing the first... ..

#### Claims:

What is claimed is: 1. A method for sending video and audio data through a network, the method comprising the computer-implemented acts of: **sending** said video and **audio data** in **uncompressed** form through said network; using a **multicast** protocol for sending said video and audio data for sending said video and audio data; and using an error correction to reduce packet loss when...

13/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Data transmission method involves switching between two transmission processes of forming compressed data, based on restoration error occurrence of compressed packet at receiving end**

Patent Assignee: BURMEISTER C (BURM-I); FUKUSHIMA H (FUKU-I); HAKENBERG R (HAKE-I); MATSUSHITA ELECTRIC IND CO LTD (MATU); MIYAZAKI A (MIYA-I)

Inventor: AKIHIRO M, BURMEISTER C; FUKUSHIMA H; HAKENBERG R; HIDEAKI F, MIYAZAKI A

Patent Family ( 6 patents, 6 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1411699	A2	20040421	EP 2000112800	A	20000616	200430	B
			EP 200328487	A	20000616		
US 20040125817	A1	20040701	US 2000598256	A	20000621	200444	E
			US 2003735661	A	20031216		
EP 1411699	B1	20050330	EP 200028487	A	20000616	200523	E
DE 60019174	E	20050504	DE 60019174	A	20000616	200530	E
			EP 200328487	A	20000616		
DE 60019174	T2	20050811	DE 60019174	A	20000616	200553	E
			EP 200328487	A	20000616		
EP 1411699	B8	20061018				200670	E

#### Abstract:

NOVELTY - A transmission process forms compressed data stored in compressed packet to be **transmitted**, based on **transmission data of the uncompressed** and compressed packets. Another process forms compressed data by a process different from the previous process. When the data is transmitted in packets, the transmission... USE - For transmitting packet data over network such as Internet, integrated service digital network (ISDN) and local area network (LAN) using transmission protocols such as **transmission control protocol/internet protocol (TCP/IP)** and **user datagram protocol/internet protocol (UDP/IP)**.... DESCRIPTION OF DRAWINGS - The figure shows the structure of uncompressed packet and compressed packet used in data transmission.... data to the receiving end, comprises: a reception unit for receiving the transmission data as an input signal; a packet formation unit for receiving the **transmission data** received, and forming an **uncompressed packet in which predetermined transmission data is stored as uncompressed data**, and a **compressed packet** in which at least a portion of **transmission data** that follows the predetermined transmission data is compressed and stored as compressed data; a reference information management unit for holding and managing, as reference information, **information** relating to the **uncompressed packet** formed by the **packet formation unit**; and a **transmission unit** for **transmitting** the respective packets formed by the packet formation unit, as a transmission signal, to the receiving end. The packet formation unit forms compressed data to be stored in a compressed packet, on the basis of the **transmission data of the uncompressed packet** and the reference information stored in the reference information management unit. Therefore, the number of packets to be discarded at the receiving end due to an error which has occurred in the radio section....

#### Claims:

data in units of packets each containing transmission data from the transmitting end to the receiving end, said method comprising: a transmission-side process of **transmitting** an uncompressed packet in which **predetermined transmission data is stored as uncompressed data**, and then **continuously transmitting** a compressed packet in which at least a portion of transmission data following the predetermined transmission data is compressed and stored as compressed data, said transmission-side process including: a first data transmission process of forming compressed data that is to be stored in a compressed packet to be **transmitted**, on the basis of **transmission data of the uncompressed packet and transmission data of the compressed packet to be transmitted**; and a second data **transmission** process of **forming** compressed data that is to be stored in the compressed packet to be transmitted, by a compression process different from a compression process which is... method for sequentially transmitting packets having transmission data in a header from a transmitting end to a receiving end, said method comprising the steps of: **transmitting** an uncompressed packet comprising **uncompressed transmission data**, and then **continuously transmitting** compressed packets each comprising compressed **transmission data**, characterized by forming said compressed data to be comprised in the compressed packets using a first or a second data forming process, wherein in the first data forming process, compressed data of a compressed

packet is **formed based on the uncompressed data of the uncompressed packet and data to be transmitted** in the compressed packet, and in the second data forming process, compressed data is formed using a data forming process different from said first data forming process, and switching between the first and the second **data forming** process when **forming** said compressed **packets** depending on a notification received from the receiving end indicating whether a restoration error when restoring a transmitted compressed packet at the receiving end has occurred.... What is claimed is:1. **A data transmission method for sequentially transmitting data in units of packets** each containing transmission data, from the transmitting end to the receiving end, said method comprising: a transmission-side process of **transmitting an uncompressed packet** in which predetermined **transmission data** is stored as **uncompressed data**, and then continuously **transmitting** a compressed packet in which at least a portion of transmission data following the predetermined transmission data is compressed and stored as compressed data; a reception-side process of receiving the packets transmitted from the transmitting end, and restoring the transmission data of the respective packets on the basis of the **uncompressed data** and the **compressed data** stored in the respective packets; said **transmission-side process including a compression process of forming compressed data** to be **stored** in a compressed packet to be transmitted, on the basis of the transmission data of a reference packet that is the **uncompressed packet and the transmission data** of the compressed packet to be transmitted; and said reception-side process including a restoration process of restoring the **transmission data** of a compressed packet to **be restored**, on the basis of the **transmission data** of the reference packet and the compressed data included in the compressed packet to be restored.... Basic Derwent Week: 200430...

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13/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Hardware processor for Internet protocol based storage network appliance, provides remote direct memory access capability on IP and Ethernet network, using transmission control protocol, STCP and UDP protocol**

Patent Assignee: PANDYA A (PAND-I); PANDYA A A (PAND-I); PANDYA A A (PAND-I)

Inventor: PANDYA A; PANDYA A A

Patent Family ( 27 patents, 99 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2003104943	A2	20031218	WO 2003US18386	A	20030610	200404	B
US 20040010545	A1	20040115	US 2002388407	P	20020611	200406	E
			US 2003458855	A	20030610		
US 20040010612	A1	20040115	US 2002388407	P	20020611	200406	E
			US 2003459674	A	20030610		
US 20040030757	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459297	A	20030610		
US 20040030770	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459350	A	20030610		
US 20040030806	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459019	A	20030610		
US 20040037299	A1	20040226	US 2002388407	P	20020611	200416	E
			US 2003458844	A	20030610		
US 20040037319	A1	20040226	US 2002388407	P	20020611	200416	E
			US 2003459349	A	20030610		
AU 2003251492	A1	20031222	AU 2003251492	A	20030610	200445	E
US 20040165588	A1	20040826	US 2002388407	P	20020611	200457	E
			US 2003458844	A	20030610		
			US 2003458855	A	20030610		
			US 2003459019	A	20030610		
			US 2003459297	A	20030610		
			US 2003459349	A	20030610		
			US 2003459350	A	20030610		
			US 2003459674	A	20030610		
			WO 2003US18386	A	20030610		
			US 2004783890	A	20040220		
US 20040210320	A1	20041021	US 2002388407	P	20020611	200470	E
			US 2003458844	A	20030610		
			US 2003458855	A	20030610		
			US 2003459019	A	20030610		
			US 2003459297	A	20030610		
			US 2003459349	A	20030610		
			US 2003459350	A	20030610		
			US 2003459674	A	20030610		
			WO 2003US18386	A	20030610		
			US 2004783890	A	20040220		
			US 2004845345	A	20040512		
EP 1573454	A2	20050914	EP 2003757485	A	20030610	200560	E
			WO 2003US18386	A	20030610		
JP 2006516054	W	20060615	WO 2003US18386	A	20030610	200639	E
			JP 2004511951	A	20030610		
US 7376755	B2	20080520	US 2002388407	P	20020611	200843	E
			US 2003459349	A	20030610		
US 7415723	B2	20080819	US 2002388407	P	20020611	200857	E
			US 2003458844	A	20030610		
			US 2003458855	A	20030610		
			US 2003459019	A	20030610		
			US 2003459297	A	20030610		

**Abstract:**

NOVELTY - The hardware processor provides remote direct memory access capability on Internet protocol (IP) network and Ethernet network using **transmission control protocol (TCP)**, **STCP** and **UDP** protocol. ... hardware implemented ISCSI/IP storage controller; host processor; host; multi-port hardware processor; integrated circuit hardware processor; remote direct memory access operating method; ISCSI stack; **TCP/IP** stack; IP processor; multiprocessor system; **TCP/IP** processor engine; IP storage processor engine; **TCP/IP** processor; hardware implemented IP network application processor; transport level RDMA function execution method; peer system; cluster of server; CPU; packet scheduler and sequencer; classification... ADVANTAGE - Reduces **TCP/IP** protocol stack overhead sharply and enables high line rate storage and data transport solution based on IP. Provides features to terminate **TCP** traffic carrying the storage and data payload. Thereby eliminates the **TCP/IP** networking stack overhead. Allows packets to pass through from input to output with minimal latency. Enables high line rate storage or data traffic carried... An architecture provides capabilities to transport and process Internet Protocol (IP) packets from Layer (2) through full **TCP/IP** termination and deep packet inspection through Layer (7). A set of engines performs pass-through packet classification, policy processing and/or security processing enabling... schedules packets to packet processors for processing, based at least in part on the classification. An internal memory or local session database cache stores a **TCP/IP** session information database and may also store a storage information session database for a certain number of active sessions. The session information that is... which provides the function to transfer and process an Internet protocol (IP) packet from the (2)th layer to the (7)th layer through perfect **TCP** / completion|finish of IP, and a deep packet test|inspection. A set of engines perform a passage packet classification|category, a policy processing, and/or... a packet processor based on a classification|category for a processing at least partially. Internal memory or local session database cache|cache preserve|saves a **TCP/IP** session information database. Moreover, the storage information session database with respect to the active session of the number of identification can also be preserve... ..

**Claims:**

A remote memory access function is directly provided on an IP network, and **TCP**, **STCP**, a **UDP** protocol, or its arbitrary combination is used on an IP network. The hardware processor characterized by the above-mentioned. A remote memory access function is directly provided on an IP network, and **TCP**, **STCP**, a **UDP** protocol, or its arbitrary combination is used on an IP network. The hardware processor characterized by the above-mentioned... A **transmission control protocol (TCP)**, a stream control transmission protocol (**STCP**), or the **User Datagram Protocol (UDP)** operation, or it is a hardware processor which provides the arbitrary combination on the Internet protocol (IP). Comprising: The said operation includes the remote direct... each said line card having identification information based therein and comprising a hardware processor providing remote direct memory access capability for enabling data transfer using **TCP** over IP networks, said processor being programmable and sending and receiving data packets' also having identification information based therein, said packets transmitted, encapsulated or encoded... What is claimed is: 1. A hardware processor providing remote direct memory access capability on an IP network and using a **TCP**, **STCP** or **UDP** protocol, or a combination of any of the foregoing, over IP networks... What is claimed is: 1. An IP processor for enabling **TCP** or **STCP**, or **UDP**, or other session oriented protocols over IP networks, said IP processor comprising: a. at least one packet processor for processing IP packets; b. a session... ..

13/3,K/8 (Item 8 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Internet checksum computing method e.g. for Internet protocols such as IP, TCP, involves complementing one's complement value of evaluated intermediate checksum value, for replacement in transmitted packet header**

Patent Assignee: CERTICOM CORP (CERT-N); CERTICOM CORP (CIRT-N); POELUEV Y (POEL-I)

Inventor: POELUEV Y

Patent Family ( 3 patents, 2 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030014706	A1	20030116	US 2001903989	A	20010713	200324	B
CA 2353119	A1	20030113	CA 2353119	A	20010713	200324	NCE
US 6728930	B2	20040427	US 2001903989	A	20010713	200429	E

#### Abstract:

USE - For computing Internet checksum used by protocols such as IP, UDP and TCP, for detecting faults/noise encountered in transmission line during packet transmission... The present invention is directed to a method of updating a checksum associated with a packet of information to be transferred between correspondents. The method comprises the steps of: changing the value of a field; computing a complement; computing a difference; computing a one's complement... Basic Derwent Week: 200324

13/3,K/9 (Item 9 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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#### **Voice data packet transmission directing method in Internet, involves re-packaging voice data packets received from external device in gateway server and transmitting to internal computer system**

Patent Assignee: BUCK A (BUCK-I); ST PIERRE R (SPIE-I)

Inventor: BUCK A; ST PIERRE R

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020186683	A1	20021212	US 2001825568	A	20010402	200323	B

#### Abstract:

USE - For directing voice data packet transmission through Internet... A method and computerized system for directing voice data transmissions by a gateway server of an Internet telephony service provider between an internal computer system of a registered user and an external device connected to the external network, such as Internet, where the internal computer... also determines whether the internal computer system is allowed to receive voice data packets using a connectionless packet-oriented communication protocol, such as for example UDP, and re-routes all voice data transmissions from the external device through the gateway server, which re-packages voice data transmissions in accordance with a packet and transmission protocol (and format) that is allowed to be sent to the internal computer system, such as for example TCP/IP.

#### Claims:

We claim: 1. A method for directing voice data transmissions between at least one internal computer system of at least one registered user, said internal computer system protected by a firewall security system, and at least one external device connected to the external network... Basic Derwent Week: 200323

13/3,K/10 (Item 10 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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#### **Virtual internet protocol switching method in communication system, involves generating digital packet comprising packet number field, virtual connection identifiers and quality of service/ management/ security field**

Patent Assignee: SIGNAFOR INC (SIGN-N)

Inventor: CHAKRAVORTY S

Patent Family ( 5 patents, 94 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020044553	A1	20020418	US 2000239256	P	20001012	200247	B
			US 2000251519	P	20001207		
			US 2001973884	A	20011011		
WO 2002032051	A2	20020418	WO 2001US31551	A	20011011	200247	E
AU 200211560	A	20020422	AU 200211560	A	20011011	200254	E
AU 2002211560	A8	20051013	AU 2002211560	A	20011011	200611	E
US 7023851	B2	20060404	US 2001973884	A	20011011	200624	E

**Abstract:**

USE - For switching digital data packets comprising internet protocol (IP), **transmission control protocol (TCP)**, **user datagram protocol (UDP)**, **internet control message protocol (ICMP)** and other data packets in packet switching system (claimed) of data communication system (claimed... .. that enables switching of packets in a fast, secured and prioritized manner and establishes the hop-by-hop virtual connections and associated signaling technologies. Thereby provides high speed **transmission** of voice, **video** and **data packets with high quality of service** (QOS). The **packet switching** algorithms allocate node resources bandwidth and establish security parameters, node and link processing characteristics and network management constraints, used to route/switch the packets... routers, switches, portable devices and other appurtenances including computers and communication links. The method provides for switching of data packets that comprise Internet Protocol (IP), **Transmission Control Protocol (TCP)**, **User Datagram Protocol (UDP)**, **Internet Control Message Protocol (ICMP)**, and other packets, and includes signaling packet configurations. The method allows for replacing one or more bits in the IP header address fields and...  
... Basic Derwent Week: 200247

13/3,K/11 (Item 11 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Data recording system for internet protocol telephony, transmits IP packets corresponding to audio data between telephone terminals, in real time through network using UDP and RTP**

Patent Assignee: NEC CORP (NIDE)  
Inventor: NOGUCHI T

Patent Family ( 4 patents, 2 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020027977	A1	20020307	US 2001944187	A	20010904	200243	B
JP 2002077264	A	20020315	JP 2000266920	A	20000904	200243	E
JP 3555568	B2	20040818	JP 2000266920	A	20000904	200454	E
US 6795534	B2	20040921	US 2001944187	A	20010904	200462	E

**Abstract:**

NOVELTY - A telephone terminal (100) transmits IP packets corresponding to audio data through a network using UDP and RTP, to another telephone terminal (211) in real time. The IP packets are transmitted to a computer (400) for recording, where IP packets are...

**Claims:**

to the network;the first telephone terminal being capable of transmission and reception of audio data in the form of IP packets, making communication using **an IP**;(c) **a second telephone terminal** connectable **directly** to the network or indirectly thereto by way of an exchange;the second telephone



terminal being capable of communication; and(d) a recording device connected... the non-recording mode, the transmitter section generates speech IP packets corresponding to the electric audio signal of the user's voice and, using the **UDP** and the RTP for the transport layer of the OSI reference model, transmits the generated speech IP packets to the IP network and to the... mode, the transmitter section generates the speech IP packets and transmits the speech IP packets to the subscriber circuit while concurrently storing data of the **speech** IP packets in the phone memory, the transmitter section reads out the data from the phone memory and transmits the data as recording IP packets to the recording computer using **TCP**, without the **UDP** and the RTP, for the transport layer of the OSI reference model, and in the recording mode, a **bi-directional voice** communication occurs between the IP telephone terminal and the non-IP telephone terminal while, at the same time, the data of the speech IP packets are stored at the recording computer Basic Derwent Week: 200243

13/3.K/12 (Item 12 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Communication method for wireless communication system, involves transmitting adaptation layer information packet from base station controller**

Patent Assignee: NORTEL NETWORKS CORP (NELE); NORTEL NETWORKS LTD (NELE)

Inventor: WU G; GENG W

Patent Family ( 10 patents, 95 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002035663	A2	20020502	WO 2001US31995	A	20011015	200242	B
AU 200213177	A	20020506	AU 200213177	A	20011015	200257	E
EP 1329079	A2	20030723	EP 2001981540	A	20011015	200350	E
			WO 2001US31995	A	20011015		
KR 2003061827	A	20030722	KR 2003705854	A	20030426	200381	E
BR 200114939	A	20031223	BR 200114939	A	20011015	200406	E
			WO 2001US31995	A	20011015		
JP 2004512787	W	20040422	WO 2001US31995	A	20011015	200428	E
			JP 2002538697	A	20011015		
US 6920125	B1	20050719	US 2000699196	A	20001027	200547	E
AU 2002213177	A8	20050908	AU 2002213177	A	20011015	200568	E
IN 200300489	P1	20070316	WO 1999US17389	A	19990805	200730	E
			IN 2003DN489	A	20030401		
IN 235772	B	20090904	WO 2001US31995	A	20011015	201001	E
			IN 2003DN489	A	20030401		

**Abstract:**

length) that are frequently delivered (e.g. 10 to 20 msec.) to mobile nodes on the communications system, such as voice communications. Because an uncompressed **TCP/IP** or **UDP/IP** header length is disproportionately large compared to the smaller-sized data packets, the bandwidth on the backhaul connection between the base station controller unit... 10-20 byte length) that are frequently delivered (e.g. for every 10-20 m seconds) to mobile nodes on the communication system, such as voice communication, because an uncompressed **transmission control protocol**/internet protocol (**TCP/IP**) or **user datagram protocol (UDP)**/IP header length is disproportionately large compared to the smaller-sized data packets. The bandwidth on the backhaul connection between the base station controller unit... that are frequently delivered (e.g. every 10 to 20 msec.) to mobile nodes on the communications system, such as voice communications. Because an uncompressed **TCP/IP** or **UDP/IP**

header length is disproportionately large compared to the smaller-sized data packets, the bandwidth on the backhaul connection between the base station controller unit... Basic Derwent Week: 200242

13/3,K/14 (Item 14 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Internet telephone apparatus has switching controller for controlling and switching protocol of data transfer responding to congestion situation of internet**

Patent Assignee: KATO T (KATO-I); NEC CORP (NIDE)

Inventor: KATO T

Patent Family ( 3 patents, 2 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20010030944	A1	200111018	US 2001832782	A	20010411	200215	B
JP 2001298479	A	200111026	JP 2000110354	A	20000412	200215	E
US 6940819	B2	20050906	US 2001832782	A	20010411	200558	E

**Abstract:**

4 outputs is input into a transmission switching section 5. The transmission switching section 5 switches and outputs the compressed voice data to either a **UDP** transmitter 7 or a **TCP** transmitter 6 according to a transmission **switching** signal that the network situation supervisory section outputs. A network situation supervisory section 16 outputs a transmission switching signal which acts so as to transmit with a **UDP** in case that a network is in a situation with a margin, and the transmission switching signal **which** acts so as to transmit with a **TCP** in case that a network is in a confused situation responding to network congestion information that is **obtained** from a network interface 9. This allows a protocol transmitting the compressed voice data to be selected corresponding to a congestion situation of the network, and thereby a **voice call without interruption can be obtained** even though the network is in a confused and low-quality situation... The compressed voice data is input into a transmission switching section. The transmission switching section switches and outputs the compressed voice data to either a **UDP** transmitter or a **TCP** transmitter according to a transmission switching signal that the network situation supervisory section outputs. The transmission switching signal allows-transmission **using** the **UDP** transmitter **when** a network is in a situation with a margin, and transmission using the **TCP** transmitter when a network is in a confused **situation** responding to network congestion information that is obtained from a network interface. This allows a **protocol** transmitting the compressed voice data to be selected corresponding to a congested situation of the network, and thereby a voice call without interruption can be... Basic Derwent Week: 200215

13/3,K/15 (Item 15 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Internet broadcast data provision for multimedia technology, involves connecting requesting terminal to terminal which is directly coupled to server, if number of terminals coupled to server exceeds specified value**

Patent Assignee: EGC & C CO LTD (EGCC-N); HWANG (HWAN-I); HWANG J (HWAN-I); KIM Y (KIMY-I); MIZI RES INC (MIZI-N); ZEE D (ZEED-I)

Inventor: HWANG; HWANG J; JI D H; KIM Y; KIM Y H; ZEE D; ZEE D H; KIM Y 1 H

Patent Family ( 20 patents, 94 countries )						
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
WO 2001053958	A1	20010726	WO 2001KR72	A	20010117	200165 B
AU 200128890	A	20010731	AU 200128890	A	20010117	200171 E
KR 2001073511	A	20010801	KR 20001953	A	20000117	200210 E
KR 2001076596	A	20010816	KR 20003836	A	20000126	200212 E
KR 2001105387	A	20011128	KR 2001711712	A	20010914	200233 E
EP 1198752	A1	20020424	EP 2001942740	A	20010117	200235 E
			WO 2001KR72	A	20010117	
US 20020161829	A1	20021031	WO 2001KR72	A	20010117	200274 E
			US 2001936528	A	20010914	
KR 342975	B	20020704	WO 2001KR72	A	20010117	200302 E
			KR 2001711712	A	20010914	
CN 1363066	A	20020807	CN 2001800361	A	20010117	200304 E
TW 501021	A	20020901	TW 2001101368	A	20010118	200334 E
JP 2003521161	W	20030708	JP 2001554185	A	20010117	200347 E
			WO 2001KR72	A	20010117	
EP 1414186	A2	20040428	EP 2001942740	A	20010117	200429 E
			EP 20041063	A	20010117	
CN 1525716	A	20040901	CN 2001800361	A	20010117	200478 E
			CN 200410005221	A	20010117	
CN 1165132	C	20040901	CN 2001800361	A	20010117	200615 E
US 7047306	B2	20060516	WO 2001KR72	A	20010117	200633 E
			US 2001936528	A	20010914	
EP 1414186	B1	20060927	EP 2001942740	A	20010117	200663 E
			EP 20041063	A	20010117	
DE 60123486	E	20061109	DE 60123486	A	20010117	200675 E
			EP 20041063	A	20010117	
DE 60123486	T2	20070802	DE 60123486	A	20010117	200753 E
			EP 20041063	A	20010117	
CA 2365253	C	20071023	CA 2365253	A	20010117	200772 E
			WO 2001KR72	A	20010117	
JP 4005363	B2	20071107	JP 2001554185	A	20010117	200774 E
			WO 2001KR72	A	20010117	

#### Claims:

The invention claimed is: 1. An Internet broadcasting method comprising:providing an Internet broadcasting server configured to broadcast unicast data and multicast data;**providing a terminal** having **broadcasting** receiving means to **directly receive multicast data**, and data treatment and display means connected to the broadcasting receiving means for receiving, processing, and displaying the multicast data from the **broadcasting** receiving means, and **broadcasting** repeating means to **directly receive unicast data**, transform the unicast data to **multicast** data and transmit the

transformed multicast data to other terminals;receiving by the broadcasting receiving means multicast data broadcast by the Internet broadcasting server for...

13/3,K/17 (Item 17 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
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**Voice data transmitting method in internet, involves monitoring audio data to distinguish between period of sound and silence, and storing data associated with sound period in buffer for transmission to client**

Patent Assignee: CONTIGO SOFTWARE (CONT-N); INTERCALL INC (INTE-N); RAINANCE COMMUNICATIONS INC (RAIN-N); BOYNS M R (BOYN-I); SCHERPBIER A W (SCHE-I)

Inventor: BOYNS M R; SCHERPBIER A W; BOYNS M; SCHERPBIER A

Patent Family ( 13 patents, 93 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001033799	A2	20010510	WO 2000US41818	A	20001102	200157	B
AU 200126215	A	20010514	AU 200126215	A	20001102	200157	E
EP 1238512	A2	20020911	EP 2000989753	A	20001102	200267	E
			WO 2000US41818	A	20001102		
US 6621834	B1	20030916	US 1999434619	A	19991105	200362	E
US 20040088168	A1	20040506	US 1999434619	A	19991105	200430	E
			US 2003624721	A	20030721		
AU 780079	B2	20050224	AU 200126215	A	20001102	200520	E
US 7236926	B2	20070626	US 1999434619	A	19991105	200742	E
			US 2003624721	A	20030721		
US 20070223539	A1	20070927	US 1999434619	A	19991105	200765	E
			US 2003624721	A	20030721		
			US 2007750259	A	20070517		
EP 1238512	B1	20080625	EP 2000989753	A	20001102	200844	E
			WO 2000US41818	A	20001102		
DE 60039309	E	20080807	DE 60039309	A	20001102	200854	E
			EP 2000989753	A	20001102		
			WO 2000US41818	A	20001102		
US 7830866	B2	20101109	US 1999434619	A	19991105	201074	E
			US 2003624721	A	20030721		
			US 2007750259	A	20070517		
CA 2716371	A1	20010510	CA 2388848	A	20001102	201118	E
			CA 2716371	A	20001102		
CA 2388848	C	20101221	CA 2388848	A	20001102	201118	E
			WO 2000US41818	A	20001102		

**Abstract:**

need for large buffer on client to store voice data, is eliminated and the firewalls and proxy servers are avoided by transmitting voice data using TCP instead of UDP... .. system and method for voice transmission over high level network protocols. On the Internet and the World Wide Web, such high

level protocols are HTTP/TCP. The restrictions imposed by firewalls and proxy servers are avoided by using HTTP level connections to transmit voice data. In addition, packet delivery guarantees are obtained by using TCP instead of UDP. Variable compression based on silence detection takes advantage of the natural silences and pauses in human speech, thus reducing the delays in transmission caused by using HTTP/TCP. The silence detection includes the ability to bookend the voice data sent with small portions of silence to insure that the voice sounds natural. Finally... ...

#### Claims:

A method for transmitting voice from a presenting computer (104) to one or more client computers (128) over a computer network (100), using HTTP and TCP/IP protocols, each of said one or more client computers (128) executing a Java-enabled browser that automatically installs a Java client, the method comprising... ... 1. A method for transmitting voice input from a presenting computer to one or more client computers over a computer network, comprising the steps of: **providing** audio data input through an incoming **audio** capable device **directly** to the presenting computer, wherein the presenting computer establishes and maintains an open HTTP connection with a server through the Internet, wherein audio data input... Basic Derwent Week: 200157

13/3,K/19 (Item 19 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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#### Communication method between application programs and a network device driver

Patent Assignee: SONY EUROPA BV (SONY); SONY SERVICE CENT EURO NV (SONY)

Inventor: APTS Y; MARIVOET P

Patent Family ( 4 patents, 27 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 935192	A1	19990811	EP 1998200379	A	19980209	199938	B
JP 2000067017	A	20000303	JP 199931519	A	19990209	200023	E
KR 1999072483	A	19990927	KR 19994251	A	19990208	200048	E
US 7069561	B1	20060627	US 1999246271	A	19990208	200643	E

#### Abstract:

12 Transmission Control Protocol TCP ... 13 User Datagram Protocol UDP

#### Claims:

to memory locations storing data of the data units such that the references are passed between program objects and the data of the data units is not **passed directly** between program objects, and wherein for at least one application data unit, the referenced memory location storing data of the application data unit is the same memory location as... Basic Derwent Week: 199938

13/3,K/20 (Item 20 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Multicast transmission for software files over client/ server network - involves partitioning data into blocks and frames for transmission over network and retransmitting frames according to server request**

Patent Assignee: STARBURST COMMUNICATIONS CORP (STAR-N)

Inventor: CATES K; MILLER C K; ROBERTSON K; WHITE M

Patent Family ( 1 patents, 1 countries )						
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
US 5727002	A	19980310	US 1995375493	A	19950119	199817 B
			US 1996585948	A	19960116	

**Abstract:**

data transfer technique requires only negative acknowledgements to be sent by the recipients. Features include the ability to set the transmission rate and to define **multicast** groups. Also, it is possible to determine the capacity of links of unknown capacity using a "multicast network probe" feature of the invention, and to determine the frame error rates of known-capacity links by utilizing the same feature. A "multicast ping" feature of the invention can be used to determine the connectivity between a source and members of a **multicast** group. "Speed groups" can be set up after determining link capacities, or if they are already known, whereby the recipients connected to the source by the fastest links receive... common protocol suite in use in computer networks is **TCP/IP**, which is the protocol used in the Internet. **TCP** stands for **Transmission Control Protocol**, and **IP** stands for Internet Protocol. Two file transfer protocols are available in association with **TCP/IP**: (i) File Transfer Protocol (**FTP**) which runs as an application on top of **TCP** and (ii) Trivial File Transfer Protocol (**TFTP**) which runs on top of **UDP**. **UDP** stands for **User Datagram Protocol**. Both **TCP** and **UDP** are transport protocols which are responsible for end-to-end **delivery of information** across an internetwork, i.e., a network of networks... The files generally can be in any format. The **data** file is then read in from the tape or floppy into a file system of the **transmission** server. Note that the server must have sufficient space available to read in an **uncompressed** copy of the **data** file. For both services, the **data** file also can be encrypted so that noneligible receivers cannot receive and use the **data** file. Each **transmission** file preferably is uniquely identified... operates at the application layer of the **TCP/IP** protocol stack on top of **UDP**. The invention also could operate at the application layer above the connectionless **transport** layer present in other protocol stacks such as **IPX** in the NetWare **SPX/IPX** protocol suite. **UDP** stands for **User Datagram Protocol**, and it is the **TCP/IP** standard protocol that allows an application program on one computer to send a **datagram** to an application program on another computer. **UDP** uses the Internet Protocol (**IP**) to **deliver** datagrams. **UDP** datagrams differ from **IP** datagrams in that **UDP** datagrams include a protocol port number which allows the **sender** of the datagram to distinguish among multiple destinations (i.e., application programs) on the receiving computer. **UDP** datagrams also typically include a checksum for the data being **sent**... Basic Derwent Week: 199817

19/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Set top box provides for input output processing of audio visual signals**

Patent Assignee: EXPAND CHANNEL MULTIMEDIA CO LTD (EXPA-N)

Patent Family ( 1 patents, 1 countries )						
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
DE 20205458	U1	20020808	DE 20205458	U	20020409	200321 B

**Abstract:**

which are amplified and demodulated [P]. A demultiplexer [Q] connects with a DVD decoder [Y] and a central processor [Q] using a bilateral data protocol, **BDP**, [T]. An electronic **audio video** [U] switch provides input to a **video** screen. Control inputs are **provided** y a joystick [X], keyboard [W] and remote controller [V]. Basic Derwent Week: 200321

19/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Method of conducting electronic business using a central management platform which acts as a conduit and intermediary between connected participants**

Patent Assignee: IBM CORP (IBMC); CHEHADE F B (CHEH-I); CURWEN T P (CURW-I); VIACORE INC (VIAC-N); YORK L (YORK-I); INT BUSINESS MACHINES CORP (IBMC)

Inventor: CHEHADE F B; CURWEN T P; YORK L; CHEHADE F; CURWEN T

Patent Family ( 12 patents, 99 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002056147	A2	20020718	WO 2002US713	A	20020109	200253	B
US 20020128946	A1	20020912	US 2001757771	A	20010109	200262	E
EP 1350209	A2	20031008	EP 2002713390	A	20020109	200370	E
			WO 2002US713	A	20020109		
KR 2003086250	A	20031107	KR 2003709150	A	20030708	200418	E
AU 2002245244	A1	20020724	AU 2002245244	A	20020109	200427	E
CN 1484804	A	20040324	CN 2002803517	A	20020109	200437	E
JP 2004528622	W	20040916	JP 2002556341	A	20020109	200461	E
			WO 2002US713	A	20020109		
AU 2002245244	A8	20051013	AU 2002245244	A	20020109	200611	E
CN 1316382	C	20070516	CN 2002803517	A	20020109	200761	E
US 7562041	B2	20090714	US 2001757771	A	20010109	200946	E
US 20090276624	A1	20091105	US 2001757771	A	20010109	200973	E
			US 2009498578	A	20090707		
KR 985644	B1	20101005	WO 2002US713	A	20020109	201068	E
			KR 2003709150	A	20030708		

**Abstract:**

participant becomes a member of an electronic trading community. Members of the electronic trading community may utilize the process management platform as a conduit for **sending** and receiving business process **data**, and the process management platform can monitor and manage the flow of business process messages and data in order to facilitate and enable successful completion....

**Claims:**

from first business process data, and as to the step that performs the business transaction, first and second trading participants perform the business transaction; and **transmits** second business process **data** from the process management platform among multiple second trading participants to one or greater. The computer-readable program code for executing step which is comprised...CLAIM 32] The computer-readable recording medium which further includes the computer-readable program code which is comprised in order to **provide** the preserved first business process **data** as described above to the non-repudiation specified entity as to claim 31 CLAIM 46] The computer-readable recording medium making the electrical **transmission of data** facilitated including the business process interface, as to claim 44, is at least one part of business process data... 1. A method for facilitating business processes communication comprising: obtaining business process data from at least one first trading participant; processing said business process **data** at a process management platform; **transmitting** said business process **data** from said process management platform to at least one second trading participant... the second business process data comprising a set of transaction messages having a data format in accordance with said identified second protocol; and a computer **transmitting** said second business process **data** from said process management platform to said at least one of said plurality of second trading participants, wherein said first and second trading participants conduct s... business process data, the second business process data comprising a set of transaction messages having a data format in accordance with said identified second protocol; and transmit said second business **process** data from said process management platform to said at least one of said plurality of second trading participants such that said first and second trading...

fictitious business process data has been acknowledged in order to enable the first trading participant to determine that the first trading participant is prepared to **automatically** transmit the first **business data** to complete said business transactions; wherein the computer readable program code is configured to test operational characteristics and a connectivity of a currently trading... wherein the virtual trading participant provides a mechanism for generating test reports and determining if the process management platform is configured to archive and/or **store** information about business **process data** sent through the process management platform; wherein the process management platform provides a directory of business processes such that the virtual trading participant enables trading p... Basic Derwent Week: 200253

19/3,K/4 (Item 4 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Expert service realization arrangement for health care telemedicine services, registers signals from user to selected service units by transmitting via communication device through data transfer network**

Patent Assignee: INCREA OY (INCR-N); SEPPONEN R E (SEPP-I)

Inventor: SEPPONEN R; SEPPONEN R E

Patent Family ( 2 patents, 20 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001015056	A1	20010301	WO 2000F1719	A	20000824	200165	B
FI 199901800	A	20010621	FI 19991800	A	19990824	200214	E

#### Abstract:

P or to automatic analysis system or directly to an expert. The signals are transmitted via communication device (CD) e.g. mobile telephone through a **data transfer** network to the service units. ...Localization information produced by the system allows quick guidance to user to nearest hospital to that the necessary patients history with recommendation of therapy is **delivered** through **data networks** ... Basic Derwent Week: 200165...

19/3,K/7 (Item 7 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Inter-processor dialogue to share processes among processors - uses initial acknowledgement of transfer request from all destination processors to form count that ensures later delivery**

Patent Assignee: BULL SA (SELA); CASSONNET J C (CASS-I)

Inventor: CASSONNET J; FRESSINEAU J; LECOURTIER G

Patent Family ( 8 patents, 8 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 463901	A	19920102	EP 1991401470	A	19910605	199202	B
FR 2662830	A	19911206	FR 19906948	A	19900605	199208	E
CA 2043829	A	19911206				199209	E
US 5367693	A	19941122	US 1991710340	A	19910605	199501	E
CA 2043829	C	19961203	CA 2043829	A	19910604	199708	E
EP 463901	B1	19970910	EP 1991401470	A	19910605	199741	E
DE 69127592	E	19971016	DE 69127592	A	19910605	199747	E
			EP 1991401470	A	19910605		
ES 2107445	T3	19971201	EP 1991401470	A	19910605	199803	E



**Claims:**

processor (CPUi) wherein said requests (EXECi) represent an instruction to said at least one other processor (CPUi) to execute a particular function, each addressee processor (CPUi) including means for **sending** an acknowledgement (ACKi) to the originating processor (CPU) to signal that said at least one processor has accepted a request addressed thereto and has executed said particular function, said system being characterized in that said request originating processor includes: first counting means (BDP) enabling the determination of the total number (CFW) of requests that are to be sent or must be sent in the course of said operations... detection of equality authorizes the originating processor (CPU) to complete the execution of said operation. Basic Derwent Week: 199202

23/3,K/1 (Item 1 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Computing device, has network processing unit perceiving auxiliary processing units as separate network appliances which provide local and remote access in distributed computing environment**

Patent Assignee: ALFIERI R A (ALFI-I); HICOK G D (HICO-I); NVIDIA CORP (NVID)

Inventor: ALFIERI R A; HICOK G D

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080104271	A1	20080501	US 2002144658	A	20020513	200837	B
			US 2006473832	A	20060623		
US 7383352	B2	20080603	US 2006473832	A	20060623	200839	E

**Claims:**

in communication with the CPU and at least first and second auxiliary processing units, wherein the first and second auxiliary processing units can communicate application **data directly** to each other through the NPU using standard networking protocols, including Internet Protocol (IP), **Transmission Control Protocol (TCP)**, and **User Datagram Protocol (UDP)**, without involvement from the CPU and without involvement from the operating system, wherein the NPU perceives the first and the second auxiliary processing units as... Basic Derwent Week: 200837

23/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Voice-over-Internet-Protocol system, has call setup function executed by external manager, for responding to call request from client requesting to call another client having null-packet transmitter**

Patent Assignee: GLOBAL IP SOLUTIONS INC (GLOB-N)

Inventor: BOYLE S C; KIRCHHOFF D C

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7369537	B1	20080506	US 2001682084	A	20010718	200834	B
			US 2003248762	A	20030214		
			US 2003249384	A	20030403		

**Abstract:**

capabilities of the two clients and selects a transport capability that is common to both clients. Transport methods include direct client-to-client connections using **TCP** or **UDP** to an arbitrary port or

well-known port 80 or 443, and indirect using a voice-proxy server that each client connects to using web... ..

**Claims:**

sends the first and second client a selected transport method, including protocols, port addresses and communication sequencing, as derived from the registration information, for transporting **voice data directly** or indirectly between the clients; wherein stateful UDP is selected as the transport method, wherein the second client further comprises a null-packet transmitter that... .. Basic Derwent Week: 200834...

23/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Operating task e.g. checksum operation, offloading method for use in computer system environment, involves omitting extension from subsequent packets such that packets fail to directly include contextual information**

Patent Assignee: MICROSOFT CORP (MCT)  
Inventor: DABAGH A; HYDER J; KANIYAR S; SRINIVAS N

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080016511	A1	20080117	US 199897169	A	19980612	200822	B
			US 2000657510	A	20000907		
			US 2000726082	A	20001129		
			US 200421184	A	20041223		
			US 2005293520	A	20051202		
			US 2007862146	A	20070926		
US 7437547	B2	20081014	US 2007862146	A	20070926	200868	E

**Abstract:**

NOVELTY - The method involves omitting a specific packet extension from a set of subsequent packets such that the subsequent packets fail to **directly** include contextual **information**. The contextual information is utilized to implement a set of operating tasks e.g. checksum operation, in an event that is included in a network... USE - Method for offloading an operating task e.g. checksum operation, encryption operation, message digest calculation operation, transfer control protocol (TCP) segmentation operation, **user datagram protocol (UDP)** segmentation operation, decryption operation, TCP packet assembly operation, **UDP** packet assembly operation, packet classification operation and denial of service filter operation (all claimed), from a host computer such as personal computer, and hardware peripheral...

**Claims:**

specific packet extension being omitted from the one or more subsequent packets in such a manner that the one or more subsequent packets fail to **directly** include the contextual **information**; and using the contextual information to implement the one or more operating tasks in the event that the NIC includes task offload capabilities for implementing... .. Basic Derwent Week: 200822...

23/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Real-time monitoring method of connection latency between computer in network e.g. internet, involves generating tone with variable pitch determined by variable delay experienced by transmitted digital code of audio excitation signal**

Patent Assignee: UNIV LELAND STANFORD JUNIOR (STRD)  
Inventor: CHAFE C D

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6801939	B1	20041005	US 1999158521	P	19991008	200471	B
			US 2000686320	A	20001010		

**Abstract:**

USE - For measuring, evaluating and presenting virtual network connections e.g. **transmission control protocol (TCP)** and **user datagram protocol (UDP)**, stability and latency information, for evaluating quality of service, (QoS) of network connection in advanced digital network, for managing connections used in near real-time, media-rich applications enabled by fast networking, for interactive audio, music and video communication needs, for users of any interactive real-time **media** applications such as **high quality** teleconferencing or teleoperations enabled by internet and higher speed network systems...

23/3,K/6 (Item 6 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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**Internet protocol security and network address translation integrating method, involves using security association negotiation to record client computer local address relative to remote computer destination address**

Patent Assignee: NVIDIA CORP (NVID)  
Inventor: MAUFER T A; NANDA S; SIDENBLAD P J

Patent Family ( 2 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030233452	A1	20031218	US 2002172352	A	20020613	200406	B
US 7143137	B2	20061128	US 2002172352	A	20020613	200680	E

**Abstract:**

ADVANTAGE - The method provides integration of IPSec and NAT without adding significant overhead and without requiring an IP source or destination address and/or **TCP** or **UDP** source or destination port translation that is incompatible with IPSecs security algorithms. The method enhances the security of communication between the client and remote computers...

**Claims:**

one type of security protocol header, to establish a unique secure communication between the client and the remote computer, the SPI thereafter being used to **direct** an incoming **data** packet from the remote computer to the client computer. Basic Derwent Week: 200406

23/3,K/7 (Item 7 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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**Network-based audio content reproduction system has controllers which instruct respective audio clients through content servers, to reproduce music composition selected by user**

Patent Assignee: CHIBA T (CHIB-I); IKEDA Y (IKED-I); KAWAMURA F (KAWA-I); KUDOH Y (KUDO-I); ONKYO KK (ONKY); SANO T (SANO-I); TAKEMURA S (TAKE-I); YOSHIZAKI H (YOSH-I)  
Inventor: CHIBA T; IKEDA Y; KAWAMURA F; KUDOH Y; SANO T; TAKEMURA S; YOSHIZAKI H; KUDO Y

Patent Family ( 21 patents, 102 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2003102919	A1	20031211	WO 2003JP6552	A	20030526	200404	B
AU 2003241772	A1	20031219	AU 2003241772	A	20030526	200449	E
EP 1508892	A1	20050223	EP 2003733064	A	20030526	200515	E
			WO 2003JP6552	A	20030526		
KR 2005003371		20050110	KR 2004716490	A	20041015	200533	E
US 20050203991	A1	20050915	WO 2003JP6552	A	20030526	200561	E
			US 2004498181	A	20040609		
JP 2004509922	X	20050929	WO 2003JP6552	A	20030526	200565	E
			JP 2004509922	A	20030526		
CN 1659623	A	20050824	CN 2003812613	A	20030526	200604	E
JP 3847764	B2	20061122	JP 2004509922	A	20030526	200679	E
			JP 2004328507	A	20041112		
JP 2007140535	A	20070607	JP 2004509922	A	20030526	200738	E
			JP 2006333180	A	20061211		
JP 2007149102	A	20070614	JP 2004328958	A	20030526	200740	E
			JP 2006320287	A	20061128		
JP 4013942	B2	20071128	JP 2004509922	A	20030526	200780	E
			JP 2004328958	A	20041112		
JP 4013949	B2	20071128	WO 2003JP6552	A	20030526	200780	E
			JP 2004509922	A	20030526		
JP 4155260	B2	20080924	JP 2004509922	A	20030526	200864	E
			JP 2004328966	A	20041112		
JP 4281792	B2	20090617	JP 2004509922	A	20030526	200940	E
			JP 2006333180	A	20061211		
KR 903258	B1	20090617	WO 2003JP6552	A	20030526	200943	E
			KR 2004716490	A	20041015		
AU 2003241772	B2	20081106	AU 2003241772	A	20030526	200960	E
CN 100515076	C	20090715	CN 2003812613	A	20030526	200982	E
US 7634532	B2	20091215	WO 2003JP6552	A	20030526	200982	E
			US 2004498181	A	20040609		
US 20100049796	A1	20100225	WO 2003JP6552	A	20030526	201015	E
			US 2004498181	A	20040609		
			US 2009605492	A	20091026		
JP 2010072657	A	20100402	JP 2006320287	A	20030526	201023	E
			JP 2009253437	A	20091104		
US 7908370	B2	20110315	WO 2003JP6552	A	20030526	201120	E
			US 2004498181	A	20040609		
			US 2009605492	A	20091026		

**Abstract:**

a suitable thing to build a computer network, without being limited to this. When employing a standard TCP/IP protocol with PC (personal computer), it is preferable to employ a standard TCP/IP protocol with PC (personal computer). However, You may employ a UDP protocol etc., A protocol is not specifically limited. Moreover, in this figure, the content server and the audio client are connected so that it may... which memorize/stores the compression digital music data input sequentially temporarily, and outputs them sequentially. The speech-processing part 34 which decodes compression digital music data and produces/uncompressed digital music data, D/A converter (DAC) 36 which transform/converts digital music data into analog music data, and the LAN controller 38 which transmits/receives a signal... regeneration filename, and a list/wrist assembly key. The type of clients, such as an audio client, a controller, and an AVR client, and the data format (MP3, WAV, etc.) which can be reproduce/regenerated are recorded on a client type. The decision/availability of remote-control control is also further recorded on a... cannot be reproduce/regenerated. As shown in FIG. 63, although the music of MP3 in process of music list/wrist is displayed as usual, the music of WAV is displayed palely. Moreover, music is not displayed palely but you may make it not display it at all. Therefore, it can prevent that a user selects the music of WAV which cannot reproduce/regenerate the audio client C2. In addition, when there is change to the connection state and client type of the audio client... FIG. 32. And acquisition data length is set based on the audio formats of music. Generally, since the data of MP3 format are compressed, the data of a WAV format have large size with respect to a thing with small size. So, when the data format of the music which it is going to acquire is MP3, 4 K bytes of data are acquired once. You may make it acquire 16 K bytes of data once in WAV. 2.4. Skip reproduction/regeneration In the said Embodiment, the audio client Cj is request/requiring transmission of music data of content server Si according to... It is a figure which shows the display screen of the music list/wrist regarding the audio client which can reproduce/regenerate both MP3 and WAV. In the music list display in FIG. 61, Although MP3 is reproducible, WAV is a figure which shows the display screen of the music list/wrist regarding the...

23/3,K/8 (Item 8 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Internet protocol frame processing method in networked computer and set-top box, involves forwarding portion of received frames to CPU, based on transmission control protocol or user datagram protocol destination port**

Patent Assignee: NORTEL NETWORKS CORP (NELE)

Inventor: LYNCH J C; PICK B; SAUNDERS M

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030200341	A1	20031023	US 1999475542	A	19991230	200382	B
			US 2003454190	A	20030603		

**Abstract:**

internet protocol (IP) frames (110b-110d) transmitted over the internet (108), are received at a port switch (116). The received IP frames are determined for **transmission control protocol ( TCP) or user datagram protocol (UDP)** destination port. The portion of the received IP frames are forwarded to a CPU, based on the destination port... and a general-purpose processor. The method can include receiving frame information at the port switch, determining at least one port for the frame, and **directing** the received frame information based on the **determined port(s)**. ...

**Claims:**

comprising: receiving frame information transmitted over the network at the port switch; determining, at the port switch, at least one port for the received frame information; and **directing** the received frame information based on the determined port(s).... Basic Derwent Week: 200382...

23/3,K/9 (Item 9 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Computer program product for data transfer application, transmits encapsulated data packets from primary computer to secondary computer through created reliable connection-based data channel**

Patent Assignee: BUNDY D O (BUND-I); EISENBERG A J (EISE-I); FIRST VIRTUAL COMMUNICATIONS (FIRS-N); FIRST VIRTUAL COMMUNICATIONS INC (FIRS-N); THOMPSON J A (THOM-I)

Inventor: BUNDY D; BUNDY D O; EISENBERG A; EISENBERG A J; THOMPSON J; THOMPSON J A

Patent Family ( 3 patents, 101 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030188001	A1	20031002	US 2002367826	P	20020327	200379	B
			US 2003402752	A	20030327		
WO 2003083692	A1	20031009	WO 2003US9670	A	20030327	200379	E
AU 2003226128	A1	20031013	AU 2003226128	A	20030327	200435	E

**Abstract:**

computer to a secondary computer, on receiving data transfer request from the primary computer. The intercepted data comprising data packets of a user defined protocol (UDP) is encapsulated within a transport control protocol (TCP) and transmitted to the secondary computer through the created data channel. ... USE - Computer program product for performing transfer of data such as voice, video, transport control protocol/internet protocol (TCP/IP) and/or UDP type data packets between computer devices through internet and private networks, for conferencing and multi-media services... public network can be established, allowing selected devices of the private network to access devices on the public network. A bi-directional channel can be established where information such as rich multimedia and real-time voice and video can be accessed or communicated... can be established, allowing selected devices of the private network to access devices on the public network. A bi-directional channel (340) can be established where information such as rich multimedia and real-time voice and video can be accessed or communicated... Basic Derwent Week: 200379

23/3,K/10 (Item 10 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Data packet integrity operation performing method in computer system utilizing switch fabric, involves performing packet integrity operations on data packet using direct memory access engine**

Patent Assignee: RICHTER R K (RICH-I)

Inventor: RICHTER R K

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030097481	A1	20030522	US 2001797413	A	20010301	200356	B
			US 2002353561	P	20020131		
			US 2002277626	A	20021022		

**Abstract:**

The data packet integrity operation such as cyclic redundancy check generation or verification process or check-sum generation or verification process is performed on the data packet by a direct memory access (DMA) engine. Systems and methods are provided for an improved TCP/UDP checksum method. The checksum methods described herein may be characterized as utilizing the system data movement engine, such as a direct memory access (DMA) engine, as part of the checksum process. The checksum process may be incorporated within the prescribed interface mechanisms utilized to move data across an interconnection medium. In this manner a TCP/UDP checksum process has

been provided in which checksum generation is incorporated within the data movement engine utilized with a high speed interconnect medium (for example a switch fabric). Moreover...

23/3,K/11 (Item 11 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Application for Internet, includes instructions to open local firewall-window between UDP ports, in response to received null UDP packet, to transmit UDP packets containing user data to socket subsystem and transport layer**

Patent Assignee: BOYLE S C (BOYL-I); CRYSTAL VOICE COMMUNICATIONS (CRYS-N); KIRCHHOFF D C (KIRC-I)

Inventor: BOYLE S C; KIRCHHOFF D C

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030018912	A1	20030123	US 2001682084	A	20010718	200326	B
US 6978383	B2	20051220	US 2001682084	A	20010718	200601	E

**Abstract:**

A **high-bandwidth direct communication** path between two clients is used for **voice** or **video** calls over the Internet. An opening or a window in a firewall is made for the **direct** path by **sending** a null packet out from inside the firewall. The null packet can be a **UDP** packet directed to a **UDP** port of the other client. Initially, each client makes a **TCP** connection to port of an external manager. Each client registers its **UDP** port number with the external manager. A call request from one client to the external manager results in a message from the external manager to the other client. The other client then creates the window in its firewall by transmitting the null **UDP** packet. Then the external manager is notified and tells the calling client to begin sending **UDP** packets directly to the other client through the firewall window... .. PC can then begin **sending UDP** packets from its port to port of PC. Firewall allows these packets to **pass** through to PC since window has already been opened. **UDP** packets can be **sent** in the **reverse** direction from PC to PC using the same pair of **UDP** ports. Thus **2-way voice** or **video** communication is facilitated ... ..

23/3,K/12 (Item 12 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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**Recording system for web browser, has capture and playback applets in operative communication with gateway components for performing functionalities to effect recording and manipulation of change events**

Patent Assignee: NETTER Z I (NETT-I)

Inventor: NETTER Z I

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020038388	A1	20020328	US 2000230916	P	20000913	200246	B
			US 2001952946	A	20010913		

**Abstract:**

INDUSTRIAL STANDARDS - The capture and playback applets are in operative communication with gateway components using standard protocols such as **transmission control protocol**/Internet protocol ( **TCP/IP**), open system interconnection (OSI) protocol, **user datagram protocol** (UDP), wireless application protocol (WAP), Bluetooth wireless communication protocol.

**Claims:**

1. A system for recording as real data one or more change events in a browser, wherein said real data

includes function calls that are **directly** activated by a user event and function calls not directly activated by a user event, said system comprising: (a) one or more gateway components each substantially configured for... Basic Derwent Week: 200246

23/3,K/13 (Item 13 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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**Data requests handling system in distributed data delivery network, controls routing of requested data from data server in network to user, based on modified data resource request obtained by modifying user's request**

Patent Assignee: IBEAM BROADCASTING CORP (IBEA-N); LAHR N B (LAHR-I); WILLIAMS COMMUNICATIONS LLC (WILL-N); WILLIAMS COMMUNICATIONS LLC# (WILL-N); WILTEL COMMUNICATIONS GROUP LLC (WILT-N); LEVEL 3 COMMUNICATIONS LLC (LEVE-N)  
Inventor: LAHR N; LAHR N B

Patent Family ( 10 patents, 93 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001055878	A1	20010802	WO 2001US2821	A	20010129	200224	B
AU 200136568	A	20010807	AU 200136568	A	20010129	200224	E
US 20020040366	A1	20020404	US 2000178750	P	20000128	200227	E
			US 2001770645	A	20010129		
EP 1252575	A1	20021030	EP 2001908727	A	20010129	200279	E
			WO 2001US2821	A	20010129		
JP 2003521067	W	20030708	JP 2001555354	A	20010129	200347	E
			WO 2001US2821	A	20010129		
MX 2002007310	A1	20031201	WO 2001US2821	A	20010129	200470	E
			MX 20027310	A	20020726		
AU 2001236568	A8	20050915	AU 2001236568	A	20010129	200569	E
US 7013322	B2	20060314	US 2000178750	P	20000128	200620	E
			US 2001770645	A	20010129		
MX 238162	B	20060626	WO 2001US2821	A	20010129	200680	E
			MX 20027310	A	20020726		
CA 2398499	C	20100824	CA 2398499	A	20010129	201057	E
			WO 2001US2821	A	20010129		

#### Abstract:

ADVANTAGE - Improves the content delivery in the network by intercepting a **media** resource request **metafile** and intelligently rewriting the response before sending the response to the **media** server or back to the requesting client. As the file is rewritten according to localized information such as resource availability and client original information within... A distributed network (12) which is capable of dynamically changing **media** resource request metafiles, as well as the responses to those **media** resource requests by **media** servers (14) in the network (10), to provide more efficient content delivery in the network (10). The network (10) employs a system and method for intercepting a **media** resource request metafile client request, or a response to the **media** resource request by a **media** server (14) in the network (10), and intelligently rewriting the response before sending it back to the requesting client. The file or protocol response can... can also tunnel **multicast traffic** by using TCP to **send stream information and data** to another **multicast-enabled network**. Thus, **broadcast modules transmit** corresponding subsets of the acquisition phase streams that are sent via the **multicast cloud**. In other words, the **broadcast** modules operate as gatekeepers for their respective transport paths... RTP is used for **transmitting real-time data** such as **audio** and



**video**, and particularly for time-sensitive **data** such as **streaming media**, whether **transmission** is unicast or **multicast**. RTP employs **User Data gram Protocol (UDP)**, as opposed to **Transmission Control Protocol (TCP)** that is typically used for non-real-time **data** such as **file transfer** and e-mail. Unlike with TCP, software and hardware devices that create and carry UDP packets do not fragment and reassemble them before they have reached their intended destination

**Claims:**

requested data from a data server in said distributed data delivery network to said user based on said modified data resource request, wherein said requested **data** remains **unmodified** through the delivery of the requested data from said data server to said user. Basic Derwent Week: 200224

23/3,K/14 (Item 14 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Client-server connections dynamically switching method for real time data streaming, involves client to dynamically switch to and receive data stream from server, in response to failure detection**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM)

Inventor: GOLDSZMIDT G S; HON K S; WILLEBEEK-LEMAIR M H

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6195680	B1	20010227	US 1998121379	A	19980723	200156	B

**Abstract:**

ports. The client requests a multimedia stream through a control server or gateway which routes requests to the multimedia servers; and the client receives the **stream directly** from a selected (primary) server. The client automatically detects load imbalances and/or failures (complete or partial) and dynamically switches to a secondary server in... ..rate or sample rate (for audio); monitoring a delivery rate or for packets arriving out of order: for example using packet numbering mechanisms available in TCP; sequence numbering or time stamp capabilities of RTP (in combination with the **User Datagram Protocol (UDP)**). In any case, the determination could be based on the rate measurement or monitoring mechanism falling below (or exceeding) some threshold. Alternately, the primary server... Basic Derwent Week: 200156

23/3,K/16 (Item 16 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Point to multipoint wireless telecommunication system for satellite communication, has customer premise equipment stations which are connected to base station over shared bandwidth through specific protocols**

Patent Assignee: JORGENSEN J W (JORG-I); MALIBU NETWORKS INC (MALI-N); VAN DREBBEL

MARINER LLC (VDRE-N)

Inventor: JORGENSEN J; JORGENSEN J W; JORGENSEN W

## Patent Family ( 41 patents, 91 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001005098	A1	20010118	WO 2000US18531	A	20000707	200129	B
AU 200060746	A	20010130	AU 200060746	A	20000707	200129	E
EP 1197040	A1	20020417	EP 2000947079	A	20000707	200233	E
			WO 2000US18531	A	20000707		
BR 200012332	A	20020702	BR 200012332	A	20000707	200252	E
			WO 2000US18531	A	20000707		
KR 2002029422	A	20020418	KR 2002700350	A	20020109	200269	E
US 20020099854	A1	20020725	US 199892452	P	19980710	200275	E
			US 1999349477	A	19990709		
CN 1372740	A	20021002	CN 2000812510	A	20000707	200307	E
JP 2003521138	W	20030708	WO 2000US18531	A	20000707	200347	E
			JP 2001510192	A	20000707		
US 6594246	B1	20030715	US 199892452	P	19980710	200348	E
			US 1999347856	A	19990709		
US 20030067903	A1	20030410	US 199892452	P	19980710	200349	E
			US 1999350156	A	19990709		
			US 2002241454	A	20021024		
US 6590885	B1	20030708	US 199892452	P	19980710	200366	E
			US 1999350150	A	19990709		
US 6628629	B1	20030930	US 199892452	P	19980710	200372	E
			US 1999349483	A	19990709		
US 6680922	B1	20040120	US 199892452	P	19980710	200407	E
			US 1999349975	A	19990709		
US 6862622	B2	20050301	US 199892452	P	19980710	200516	E
			US 1999349477	A	19990709		
EP 1197040	B1	20070124	EP 2000947079	A	20000707	200710	E
			WO 2000US18531	A	20000707		
DE 60033153	E	20070315	DE 60033153	A	20000707	200726	E
			EP 2000947079	A	20000707		
			WO 2000US18531	A	20000707		
EP 1775888	A2	20070418	EP 2000947079	A	20000707	200729	E
			EP 2007101001	A	20000707		
EP 1775898	A2	20070418	EP 2000947079	A	20000707	200729	E
			EP 2007100992	A	20000707		
EP 1775899	A2	20070418	EP 2000947079	A	20000707	200729	E
			EP 2007101014	A	20000707		
EP 1796304	A2	20070613	EP 2000947079	A	20000707	200740	E
			EP 2007100998	A	20000707		
EP 1796305	A2	20070613	EP 2000947079	A	20000707	200740	E
			EP 2007101009	A	20000707		
US 7251218	B2	20070731	US 199892452	P	19980710	200751	E
			US 1999350156	A	19990709		
			US 2002241454	A	20021024		
KR 2007031444	A	20070319	WO 2000US18531	A	20000707	200755	E
			KR 2007703034	A	20070207		
KR 2007032364	A	20070321	WO 2000US18531	A	20000707	200755	E
			KR 2007703032	A	20070207		
KR 2007032365	A	20070321	WO 2000US18531	A	20000707	200755	E

**Abstract:**

NOVELTY - A wireless base station (302) and host workstations are communicated to data network through **transmission control protocol/ IP (TCP/IP)** or **user datagram protocol/ IP (UDP/IP)**. Customer premise equipment (CPE) stations to which subscriber workstations are coupled through **TCP/IP** over another data network, are connected to base station in wireless medium over shared bandwidth through **TCP/IP** or **UDP/IP**. ... subscriber workstations coupled through the packet-centric protocol to each of the subscriber CPE stations over a second network. The packet-centric protocol can be **transmission control protocol/ internet protocol (TCP/IP)**. The packet-centric protocol can be a **user datagram protocol/ internet protocol (UDP/IP)**. The system can include a resource allocation device for allocating shared bandwidth among the subscriber CPE stations. The resource allocation is performed to optimize. ... packet-centric protocol to each of the subscriber CPE stations over a second network. The packet-centric protocol can be **transmission control protocol/ internet protocol (TCP/IP)**. The packet-centric protocol can be a **user datagram protocol/ internet protocol (UDP/IP)**. The system can include a resource allocation means for allocating shared bandwidth among the subscriber CPE stations. The resource allocation is performed to optimize. ... packet-centric protocol to each of the subscriber CPE stations over a second network. The packet-centric protocol can be **transmission control protocol/ internet protocol (TCP/IP)**. The packet-centric protocol can be a **user datagram protocol/ internet protocol (UDP/IP)**. The system can include a resource allocation means for allocating shared bandwidth among the subscriber CPE stations. The resource allocation is performed to optimize. ... to each subscriber CPE station through the secondary network through the packet - center protocol is written. The packet - center protocol can be the **TCP / IP (transmission control protocol/ internet protocol)**. The packet - center protocol can be the **UDP / IP (user datagram protocol/ internet protocol)**. System comprises the resource allocation means for assigning the share bandwidth between the subscriber CPE station. The resource allocation is performed in order. ...

**Claims:**

application layer of said network device, wherein said one set of data is the index of one or more service quality requirements of said **IP stream**; said network device **directly** communicates said one set of data to said media access control layer from said application layer; wherein said communication enables one of the plurality of. ... CLAIM 6] Claim 5 includes the IP flow, is the **transmission control protocol / internet protocol (TCP/IP)** IP flow; and user **datagram protocol / internet protocol (UDP/IP)** IP flow, at least, one. The MAC layer implemented system. ... CLAIM 196] Claim 196 was abandoned in the registration payment. Method of claim 195, wherein the IP flow includes the **TCP / IP flow**, and the **UDP / IP flow**, at least, one. ... access control (MAC) layer of the packet - central wire leaves point-to-multipoint (PtMP) communications system includes the IP flow, is the **TCP / IP flow**; and **UDP / IP flow**, at least, a step for distinguishing above step, that analyzes and scheduled is the IP flow it includes: a step for characterizing the IP flow: a. ... data corresponding to the internet protocol (IP) stream includes step delivering - : and network device is the MAC layer from the application layer, direct, the set of data it shows **one** or more QoS requisites about the IP stream; as to communication, in the MAC layer, one among the multiple QoS classes is allocated in the. ... data corresponding to the internet protocol (IP) stream includes means delivering - : and network device is the MAC layer from the application layer, direct, the set of data it shows **one** or more QoS requisites about the IP stream in the application layer of the network device; communications one among the multiple qoS classes is allocated. ... Basic Derwent Week: 200129

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23/3,K/17 (Item 17 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Connection method for communications networks involves passed signaling data as useful data via predefined point-to-point connection in Internet network to second network unit**  
 Patent Assignee: SWISSCOM AG (SWIS-N)  
 Inventor: JOSS M; ZBAEREN P

Patent Family ( 2 patents, 87 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000018143	A1	20000330	WO 1999CH449	A	19990921	200028	B
AU 199956149	A	20000410	AU 199956149	A	19990921	200035	E

**Abstract:**

NOVELTY - The method involves an interworking device connected to the signaling system of a mobile network receiving signaling data **directly** from the signaling system; the received signaling data are passed on as useful data via a predefined point-to-point connection in an Internet network... HLR, VLR or MSC, are transmitted as useful data via a defined point-to-point connection (43) in an Internet network (4), for example via **UDP-IP** or **TCP-IP**, to another interworking device (5, 3). The **signalling** data received via the point-to-point connection (43) are passed on from the latter interworking device (5, 3) to the above signalling system (6... Basic Derwent Week: 200028...

23/3,K/18 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Protocol conversion method for performing Internet telephony - using client to ISP links with TCP protocols and ISP to ISP links using UDP protocols to transfer telephony packets**  
 Patent Assignee: AT & T (AMTT); AT & T CORP (AMTT); KATSEFF H P (KATS-I); ROBINSON B S (ROBI-I)

Inventor: KATSEFF H P; ROBINSON B S

Patent Family ( 5 patents, 20 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998042107	A1	19980924	WO 1998US4091	A	19980317	199844	B
US 6075796	A	20000613	US 1997819617	A	19970317	200035	E
US 6233249	B1	20010515	US 1997819617	A	19970317	200129	E
			US 2000565281	A	20000502		
US 20010009554	A1	20010726	US 1997819617	A	19970317	200146	E
			US 2000565281	A	20000502		
			US 2001797358	A	20010301		
US 6320875	B2	20011120	US 1997819617	A	19970317	200174	E
			US 2000565281	A	20000502		
			US 2001797358	A	20010301		

**Abstract:**

**higher quality** of service in applications such as Internet telephony. In one aspect of this approach, **transmission control protocol ("TCP")** is used to **send data** from a first user or client over standard telephone lines to a local Internet service provider ("ISP"). At the ISP, the **data packets** are **converted** from **TCP** to **user datagram protocol ("UDP")**. The **UDP** packets are then **transmitted**, typically over a higher bandwidth link to another local ISP serving the recipient. The **UDP** packets are translated back to **TCP** packets and routed to the receiver. Because many existing systems currently employ **UDP** packets, the present approach is largely **backwards** compatible should a recipient be hooked up to an ISP that does not employ a **TCP/UDP** converter. A **bidirectional TCP/UDP** converter is preferable for two way communication such as Internet telephony... **compression** algorithms do not presently exist for **user datagram protocol ("UDP")**... Basic Derwent Week: 199844

23/3,K/19 (Item 19 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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**Multiple network protocol encoder-decoder - has network protocol layer, data handler, operating system state machine and memory manager, and protocol handler which parses and strips header information from each packet immediately**

Patent Assignee: IREADY CORP (IREA-N); NVIDIA CORP (NVID)

Inventor: BURKES D; BURKES D F; JOHNSON M; JOHNSON M W; KOYAMA R; MINAMI J; MINAMI J S;

POFF T; POFF T C; SHINOHARA M; SU S; UYESHIRO R Y

Patent Family ( 16 patents, 69 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998019412	A1	19980507	WO 1997US17257	A	19970926	199824	B
AU 199745952	A	19980522	AU 199745952	A	19970926	199840	E
EP 935855	A1	19990818	EP 1997944464	A	19970926	199937	E
			WO 1997US17257	A	19970926		
CN 1237295	A	19991201	CN 1997199269	A	19970926	200015	E
US 6034963	A	20000307	US 1996742085	A	19961031	200019	E
AU 723724	B	20000907	AU 199745952	A	19970926	200048	E
JP 2001503577	W	20010313	WO 1997US17257	A	19970926	200117	E
			JP 1998520464	A	19970926		
CA 2265692	C	20010807	CA 2265692	A	19970926	200148	E
			WO 1997US17257	A	19970926		
TW 447205	A	20010721	TW 1999120194	A	19991118	200219	NCE
CN 1154268	C	20040616	CN 1997199269	A	19970926	200612	E
US RE39501	E	20070306	US 1996742085	A	19961031	200718	E
			US 200293340	A	20020306		
JP 2007133902	A	20070531	JP 1998520464	A	19970926	200736	E
			JP 20073117	A	20070111		
JP 3938599	B2	20070627	WO 1997US17257	A	19970926	200742	E
			JP 1998520464	A	19970926		
JP 2008259238	A	20081023	JP 2002584131	A	20020424	200876	E
			JP 2008139758	A	20080528		
EP 935855	B1	20081210	EP 1997944464	A	19970926	200904	E
			WO 1997US17257	A	19970926		
DE 69739159	E	20090122	DE 69739159	A	19970926	200914	E
			EP 1997944464	A	19970926		
			WO 1997US17257	A	19970926		

**Abstract:**

cutting-tool is received, a network packetIt is received by the network-protocol layer state machine (101) which decodes TCP, IP, a user data protocol (UDP), PPP, and network protocol like a raw/low socket. Each protocol handler does not require middle memory, but header information is parsed from a packet... .. decode network protocol simultaneous when each byte/cutting-tool is received. Without request/requiring intermediate/middle memory, from a packet, each protocol handler is parsed **directly**, interprets header **information**, and strips it off.FIG. 1This invention relates to a telecommunication.More specifically, this invention relates to the method and apparatus for processing the data... .. gate level. Network packets are received from a physical transport level mechanism by the network protocol layer state machine which decodes network protocols such as TCP, IP, User

**Datagram Protocol (UDP), PPP, and Raw Socket** concurrently as each byte is received. Each protocol handler parses and strips header information immediately from the packet, requiring no intermediate ... level. Network packets are received from a physical transport level mechanism by the network protocol layer state machine (101) which decodes network protocols such as TCP, IP, user Data Protocol (UDP), PPP, and Raw Socket concurrently as each byte is received. Each protocol handler parses and strips header information immediately from the packet, requiring no intermediate memory. The resulting data...

23/3,K/20 (Item 20 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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**Real time data imaging network system with efficient data highway - repetitively distributes uniquely identified blocks of data to all real time stations for storage of each repetition of each entire block of data directly in station memory at unique address space**  
 Patent Assignee: WESTINGHOUSE ELECTRIC CORP (WESE); EMERSON PROCESS MANAGEMENT POWER & WATER (EMER-N)

Inventor: CREW A W; EDBLAD W A; REMLEY G W; SANTOLINE L L; STAAB C J

Patent Family ( 9 patents, 5 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2268035	A	19931222	GB 199312417	A	19930616	199349	B
DE 4319912	A1	19931223	DE 4319912	A	19930616	199401	E
ES 2076091	A2	19951016	ES 19931371	A	19930618	199547	E
GB 2268035	B	19960508	GB 199312417	A	19930616	199622	E
CN 1081007	A	19940119	CN 1993107286	A	19930619	199712	E
ES 2076091	B1	19971201	ES 19931371	A	19930618	199803	E
US 5864680	A	19990126	US 1992901454	A	19920619	199911	E
			US 1994342992	A	19941107		
			US 1997869473	A	19970605		
CN 1049059	C	20000202	CN 1993107286	A	19930619	200464	E
DE 4319912	B4	20070516	DE 4319912	A	19930616	200734	E

#### Abstract:

real time data over a communications network (5) to all real time stations (3a,3b) for storage of each repetition of each entire block of **data directly** in station memory (15) at a unique address space assigned to that uniquely identified block of data. Man-machine interface stations (3b) include a workstation... containing a current data image over a broadcast communications network to all real time stations for storage of each repetition of each entire block of **data directly** in station memory at a unique address space assigned to that uniquely identified block of data. The real time stations receive the blocks of data and alternatively receive other messages from the real time stations. The other messages have a recognized standard protocol, such as the TCP/IP or UDP/IP protocol of the Internet Protocol Suite. ...

#### Claims:

real time data over a communications network (5) to all real time stations (3a,3b) for storage of each repetition of each entire block of **data directly** in station memory (15) at a unique address space assigned to that uniquely identified block of data. Man-machine interface stations (3b) include a workstation... other of said stations also including means for alternatively receiving another message from one of said stations, with said other message having one of a TCP/IP protocol and a UDP/IP protocol. Basic Derwent Week: 199349

**A method and system for a low-overhead mobility management protocol in the internet protocol layer**

**Patent Assignee:**

- **INTERDIGITAL TECHNOLOGY CORPORATION (7457070)**  
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(Applicant designated States: all)

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- **Chitrapu, Prabhakar R.**  
135 Brochant Drive; Blue Bell PA 19422; (US)

**Legal Representative:**

- **Tomlinson, Edward James et al (88301)**  
Frohwitter Patent- und Rechtsanwälte Possartstrasse 20; 81679 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1701507	A1	20060913	(Basic)
Application	EP	2006009962		20020214	
Priorities	US	270190	P	20010221	
	US	270767	P	20010222	
	US	293847	P	20010525	
	US	296168	P	20010606	
	US	309046	P	20010731	
	US	997922		20011130	
	US	26060		20011219	

**Specification:**

the new IP address. Once notified, the CN uses the new current IP address of the target MN as the header destination address in the TCP/IP datagrams. To re-direct the data traffic flow, the MN sends a User Data Protocol (UDP) message to each of the CN and the MN's home AR containing the new current IP address of the target MN. Where an ongoing...

**Method, computer-readable medium and node for selecting reliable links between nodes in an ad-hoc communication network**

**Patent Assignee:**

- **Meshnetworks, Inc.** (4106652)  
485 North Keller Road.; Maitland, FL 32751 (US)  
(Proprietor designated states: all)

**Inventor:**

- **SCHMIDT, Jeffrey, C.**  
305 Bougival Court; Orlando, FL 32828; (US)
- **WHITE, Eric, D.**  
564 Horns Corner Road; Cedarburg, Wisconsin 53012; (US)

**Legal Representative:**

- **Perkins, Sarah (69642)**  
Stevens, Hewlett & Perkins Halton House 20/23 Holborn; London EC1N 2JD; (GB)

	Country	Number	Kind	Date	
Patent	EP	1495405	A1	20050112	(Basic)
Patent	EP	1495405	B1	20070815	
	WO	2003090083		20031030	
Application	EP	2003719748		20030415	
	WO	2003US11503		20030415	
Priorities	US	122376		20020416	

**Specification:**

Address Resolution Protocol (ARP), the purposes of which can be readily appreciated by one skilled in the art. The appropriate hardware and software to perform **transmission control protocol (TCP)** and **user datagram protocol (UDP)** may also be included. In an ad-hoc network 100 with the infrastructure described above, a certain number of reliable links must exist within the network infrastructure. A reliable link is defined as a connection between two nodes 102, 106 or 107 within the network 100 that **provides bi-directional data** exchange capability that does not exceed a specified bit error rate (BER) threshold. Specifically, a minimum number of reliable links must exist within the network...

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DIALOG(R)File 348: EUROPEAN PATENTS

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13/3K/8 (Item 8 from file: 348)

**Security in area networks**

**Patent Assignee:**

- **Nokia Corporation (2963881)**  
Keilalahdentie 4; 02150 Espoo (FI)  
(Proprietor designated states: all)

**Inventor:**

- **EDNEY, Jonathan**  
31 High Street; Willingham. Cambridgeshire CB4 5ES; (GB)



- **HAVERINEN, Henry**  
Arkkitehdinkatu 15 A 3; FIN-33720 Tampere; (FI)

**Legal Representative:**

- **Ruuskanen, Juha-Pekka et al (81772)**  
Page White & Farrer Bedford House John Street; London, WC1N 2BF; (GB)

	Country	Number	Kind	Date	
Patent	EP	1393522	A2	20040303	(Basic)
Patent	EP	1393522	B1	20081105	
	WO	2002100062		20021212	
Application	EP	2002732908		20020530	
	WO	2002GB2557		20020530	
Priorities	GB	113902		20010607	

**Specification:**

or parts of data fields, with those of network permissible transmission forms and configuring the access point device to make appropriate modifications to the client **data** packet to **direct** the **transmission** form to a permitted network device. The data fields may be contained in any layer of the network communications protocol and may include the link-layer header, the IP header, and the transport protocol headers (**UDP** and **TCP**). As a unicast data packet may require a different change in configuration for onward transmission than a multicast/broadcast data packet, the access point device...

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DIALOG(R) File 348: EUROPEAN PATENTS

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13/3K/16 (Item 16 from file: 348)

**DISTRIBUTED ARCHITECTURE FOR SERVICES IN A TELEPHONY SYSTEM**

**Patent Assignee:**

- **International Business Machines Corporation (200120)**  
Old Orchard Road; Armonk, N.Y. 10504 (US)  
(Proprietor designated states: all)

**Inventor:**

- **TRUONG, Hong, Linh**  
Reidholzstrasse 37; CH-8805 Richterswil; (CH)
- **WONG, Johnny, Wai-Nang**  
Leimbachstrasse 119; CH-8041 Zurich; (CH)

**Legal Representative:**

- **Klett, Peter Michael (80772)**  
International Business Machines Corporation, Saumerstrasse 4; 8803 Ruschlikon; (CH)

Country	Number	Kind	Date
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	Country	Number	Kind	Date	
Patent	EP	885530	A1	19981223	(Basic)
Patent	EP	885530	B1	20010912	
	WO	9731492		19970828	
Application	EP	96901478		19960221	
	WO	96B134		19960221	
Priorities	EP	96901478		19960221	
	WO	96B134		19960221	

#### Specification:

required services. QoS for the voice channel can be provided by a pair of RSVP (Resource Reservation Protocol) flows because an RSVP flow is uni-directional. Encoded voice samples are sent in UDP (User Datagram Protocol) packets using TCP/UDP protocol 24 and transport services interface 23. In this case, RSVP is the signalling protocol used between the workstations and the routers to establish the...

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DIALOG(R)File 348: EUROPEAN PATENTS

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13/3K/21 (Item 21 from file: 348)

#### Local telephone service over a cable network using packet voice

##### Patent Assignee:

- **LUCENT TECHNOLOGIES INC.** (2143720)  
600 Mountain Avenue; Murray Hill NJ 07974-0636 (US)  
(Proprietor designated states: all)

##### Inventor:

- **Dalton, Robert William**  
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- **Gudapati, Krishna**  
16 Hawthorne Avenue; Holmdel, New Jersey 07733; (US)
- **Glapa, Martin Joel**  
366 Monte Vista Road; Golden, Colorado 80401; (US)

##### Legal Representative:

- **Sarup, David Alexander et al (9251751)**  
Alcatel-Lucent Telecom Limited Unit 18, Core 3, Workzone Innova Business Park; Electric Avenue Enfield EN3 7XU; (GB)

	Country	Number	Kind	Date	
Patent	EP	851653	A2	19980701	(Basic)
Patent	EP	851653	A3	20040114	
Patent	EP	851653	B1	20090211	
Application	EP	97309684		19971202	

	Country	Number	Kind	Date
Priorities	US	772711		19961223

#### Specification:

data storage. CPU 725 controls both the transmission, and reception, of packets to, and from, HFC 200 via splitter/combiner 755. In particular, in the **transmitting direction**, CPU 725 formats **data** into IP packets for application to framer 730, which "frames-up" the received data to generate a sequence of **TCP/IP** or **UDP/IP** frames to transmitter 740. The latter provides additional **error correction/detection coding** such as Reed-Solomon coding as known in the art and forms...

13/3K/22 (Item 22 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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## ROLE-BASED MESSAGE ADDRESSING FOR A COMPUTER NETWORK

#### Patent Applicant/ Patent Assignee:

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#### Inventor(s):

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- **SLAUGHTER Gregory**  
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- **MUTH John**  
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#### Legal Representative:

- **MEYERTONS HOOD KIVLIN KOWERT & GOETZEL P C (agent)**  
KIVLIN, B. Noel, P.O. Box 398, Austin, TX 78767-0398; US

	Country	Number	Kind	Date
Patent	WO	200459947	A1	20040715
Application	WO	2003US40305		20031216
Priorities	US	2002326683		20021220

#### Detailed Description:

a message to a target is that target's IP address. TCP enforces an ordered delivery of messages. The concept of a message response with **data** is not **directly** supported by TCP, but instead is **provided** by the application layer. Another network protocol in widespread use is the **User Datagram Protocol** ( **UDP**). No reliable connections are established in the **UDP** protocol, and thus no guarantees of message delivery are made. **UDP** also does not enforce an ordered delivery of messages. Like the **TCP** protocol, the concept of a message response is not directly supported by **UDP**, but instead is provided by the application layer. One type of networking is referred to as **peer-to-peer** or **P2P** networking. **Peer-to-peer**...

13/3K/23 (Item 23 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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## MULTICAST VIDEOCONFERENCING

### Patent Applicant/ Patent Assignee:

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(For all designated states except: US)

### Patent Applicant/ Inventor:

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(Designated only for: US)

### Legal Representative:

- **VON TERSCH Glenn (agent)**  
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	Country	Number	Kind	Date
Patent	WO	200444710	A2-A3	20040527
Application	WO	2003US36349		20031112
Priorities	US	2002425621		20021111

### Detailed Description:

features that make IP a heavy-weight protocol. it is used where delivery is not guaranteed. It provides connectionless service that is not possible in TCP. **Bi-directional Delivery Protocol (BDP)** utilizes multiple facets of TCP and UDP and acts as a bidirectional multicast delivery mechanism. On top of BDP, a synchronous stream of corrective data that bi-directionally passes from multipoint A to multipoint B in a constant error free state may be added. BDP may be implemented in one embodiment by sending a binomial TCP packet forward and sending a simple UDP packet back, allowing for matching up of the TCP packet and the UDP packet. Moreover, checksums may be used to provide evidence of data integrity and allow for error correction. The packets and the checksums, alone or in...

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13/3K/24 (Item 24 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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## RPF MULTI-PARTY RELIABLE TRANSPORT

### Patent Applicant/ Patent Assignee:

- **CISCO TECHNOLOGY INC**  
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- **VICISANO Lorenzo**  
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**Legal Representative:**

- **LANG Dan H (agent)**  
Ritter, Lang & Kaplan LLP, Suite D1, 12930 Saratoga Ave, Saratoga, CA 95070; US

	Country	Number	Kind	Date
Patent	WO	200440878	A2-A3	20040513
Application	WO	2003US30080		20030924
Priorities	US	2002421724		20021028
	US	2002421723		20021028
	US	2003428879		20030501

**Detailed Description:**

of the path to the source through RIB 208 1 5 which is in turn populated by the unicast protocol component 21 0. RSM 206 **provides** control channel services to communicate session control information with **directly**-connected neighboring routers including Join and Prune messages. The TPDU's themselves are transmitted and received via the **UDP** stack 212. RSM 206 uses **TCP** stack 214 to maintain the control channels.  
Fig. 3 depicts the internal structure of RMRT module 202. RPF neighbor tracking component 302 interacts with RIB...

13/3K/25 (Item 25 from file: 349)  
DIALOG(R)File 349: PCT FULLTEXT  
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**INTERNAL BGP DOWNLOADER****Patent Applicant/ Patent Assignee:**

- **CISCO TECHNOLOGY INC**  
170 West Tasman Drive, M/S 10/2/1, San Jose, CA 95134-1706; US; US(Residence); US(Nationality)

**Inventor(s):**

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**Legal Representative:**

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Ritter, Lang & Kaplan LLP, 12930 Saratoga Avenue, Suite D1, Saratoga, CA 95070; US

	Country	Number	Kind	Date
Patent	WO	200440865	A1	20040513
Application	WO	2003US30079		20030924
Priorities	US	2002421724		20021028
	US	2002421723		20021028
	US	2003428442		20030501

#### Detailed Description:

leams of the path to the source through RIB 208 which is in turn populated by the unicast protocol component 210. RSM 206 **provides** control channel services to communicate session control information with **directly**-connected neighboring routers including Join and Prune messages. The TPDUs themselves are transmitted and received via the UDP stack 212. RSM 206 uses TCP stack 214 to maintain the control channels.

Fig. 3 depicts the internal structure of RMRT module 202. RPF neighbor tracking component 302 interacts with RIB...

13/3K/28 (Item 28 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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#### METHOD OF INTERMEDIATING MULTICASTING SIGNAL FOR MULTICASTING EMBODIMENT

##### Patent Applicant/ Patent Assignee:

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- **ZOOINNET CO LTD**  
3F., Geukdong-Gangnam Bldg., 553 Dogok-dong, Gangnam-gu, Seoul, 135-270; KR;  
KR(Residence); KR(Nationality); (For all designated states except: US)

##### Patent Applicant/ Inventor:

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- **PARK Hyun-Je**  
498, Geumto-dong, Sujeong-gu, Seongnam-si, Gyeonggi-do, 461-380; KR; (Designated only for: US)

##### Legal Representative:

- **HAN YANG PATENT FIRM (agent)**  
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	Country	Number	Kind	Date
Patent	WO	200280456	A1	20021010
Application	WO	2002KR561		20020329
Priorities	KR	200117038		20010330

	Country	Number	Kind	Date
	KR	200124144		20010503

#### Detailed Description:

connected with only IP multicasting routers (20-30). Differently from terminals (40, 41) belonging to region A, terminals belonging to regions B and C cannot **directly** receive IP multicasting data to be **broadcasted** to the internet **broadcasting** server (10). Therefore, terminals belonging to 2o regions B and C should be directly connected with a broadcasting server through TCP/IP or UDP protocol to thereby receive broadcasting data. Accordingly, terminals (43, 47) of regions B and C respectively get connected with the server to receive data. The...

13/3K/29 (Item 29 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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#### SYSTEM AND METHOD FOR PROVIDING INTERNET BROADCASTING SERVICE

#### Patent Applicant/ Patent Assignee:

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409 Daegong Bldg., 823-21 Yeoksam-dong, Gangnam-gu, 134-030 Seoul; KR; KR(Residence); KR(Nationality); (For all designated states except: US)

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KR(Residence); KR(Nationality); (Designated only for: US)

#### Legal Representative:

- **LEE Kyeong-Ran (agent)**  
502 BYC Bldg., 648-1 Yeoksam 1-dong, Kangnam-ku, 135-081 Seoul; KR

	Country	Number	Kind	Date
Patent	WO	200225467	A1	20020328
Application	WO	2001KR1576		20010920
Priorities	KR	200055097		20000920
	KR	200153433		20010831
	KR	200156964		20010915

#### Detailed Description:

according to the user's selection, the transmission protocol used to communicate the compressed voice data between broadcaster's terminal and listener's terminal can be TCP or UDP. In this case, **broadcaster's** communicating **voice data** cannot be **transmitted directly** to the listener's terminal located within the network, which is protected by NAT (Network Address Translation) or Firewall. For the sake of these users, data having a format of 8KHz, 16bit and mono, is compressed with a built-in CODEC and then transmitted directly to each other by using TCP or UDP protocol. Also, because a user list that shows whole users who are in the same channel can be identified by the use of the

channel controller 150 (in FIG 1), so the compressed voice wave data is transmitted directly to whole identified IP addresses. As describing again the method for listening Internet broadcasting in brief, the channel selection data transmitted from listener's terminal ...terminal. By this, the user B's terminal can receive communicating voice data at step 855, and as shown in FIG 6c, communicating voice data can be transmitted directly to the user B's terminal without relay of the channel controller 155. Between users who communicate their voice, a voice wave data having a format of 8KHz, 16bit and mono, is compressed with a built-in CODEC and then transmitted directly to each other by using TCP or UDP protocol. And because a user list that shows whole users who are in the same channel can be identified by the use of the channel controller 155 (in FIG 1), so the compressed voice wave data is transmitted directly to whole identified IP addresses. However, the user who is protected by NAT technology must use the transmitter 160 (in FIG 1) to communicate with...data having a format of 8KHz, 16bit and mono, is compressed with a built-in CODEC and then transmitted directly to each other by using TCP or UDP protocol. Also, because a user list that shows whole users who are in the same channel can be identified by the use of the channel controller 150 (in FIG 1), so the compressed voice wave data is transmitted directly to whole identified IP addresses. And, at step 1080, the broadcasting program installed in the broadcaster's terminal 110 totalizes the number of listeners at...

13/3K/33 (Item 33 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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## PERSONAL VIDEOCONFERENCING SYSTEM HAVING DISTRIBUTED PROCESSING ARCHITECTURE

**Patent Applicant/ Patent Assignee:**

- POLYCOM INC**  
1565 Barber Lane, Milpitas, CA 95035; US; US(Residence); US(Nationality)

**Inventor(s):**

- TUCKER Mike**  
Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US
- BINFORD Don**  
Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US
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Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US
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Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US
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- WEAVER Jason C**  
Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US
- MANNING Earl**  
Polycom, Inc., 5000 Plaza on the Lake #200, Austin, TX 78746; US

**Legal Representative:**

- HENKHAUS John(et al)(agent)**  
Carr & Ferrell LLP, 2225 East Bayshore Road, Suite 200, Palo Alto, CA 94303; US

	Country	Number	Kind	Date
Patent	WO	200178394	A1	20011018



	Country	Number	Kind	Date
Application	WO	2001US11067		20010404
Priorities	US	2000545043		20000407

#### Detailed Description:

are representative of the speech and images transmitted by one or more remote conference endpoints, are received through network interface 304 and initially processed by TCP/UDP/IP stack 422 which performs (inter alia) error checking functions and strips header information from the incoming media streams. The audio and **video streams** are then **directed to a media** routing filter 502, which **sends** (via the USB connection) the audio stream(s) to synchronization routines 408 and audio decoder 406 located at appliance 102. If multiple incoming audio streams...

13/3K/37 (Item 37 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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#### SYSTEM AND METHOD FOR PROVIDING INTERNET BROADCASTING DATA BASED ON HIERARCHICAL STRUCTURE

#### Patent Applicant/ Patent Assignee:

- **EGC & C CO LTD**  
#1407 Mijin Plaza Bldg. 825, Yeoksam 1-dong, Kangnam-ku, Seoul 135-081; KR;  
KR(Residence); KR(Nationality); (For all designated states except: US)
- **MIZI RESEARCH INC**  
2F Dongsan Bldg. 890-38 Daechi 4-dong, Kangnam-ku, Seoul 135-284; KR; KR(Residence);  
KR(Nationality); (For all designated states except: US)

#### Patent Applicant/ Inventor:

- **HWANG Jun**  
#1-501, Shiyong Apt., Jungkye-dong, Nowon-ku, Seoul 139-220; KR; KR(Residence);  
KR(Nationality)
- **ZEE Dae-Hoon**  
10-10, 30, Chang-dong, Dobong-ku, Seoul 132-091; KR; KR(Residence); KR(Nationality);  
(Designated only for: US)
- **KIM Yong-Hwa**  
432-5 Byungbang-dong, Kyeyang-ku, Incheon-shi 407-320; KR; KR(Residence);  
KR(Nationality); (Designated only for: US)

#### Legal Representative:

- **SHINSUNG PATENT FIRM (agent)**  
Haechon Bldg., 741-40, Yeoksam 1-dong., Kangnam-ku, Seoul 135-081; KR

	Country	Number	Kind	Date
Patent	WO	200153958	A1	20010726
Application	WO	2001KR72		20010117
Priorities	KR	20001953		20000117
	KR	20003836		20000126

**Detailed Description:**

multicasting is rare until now, and it is currently used in only an intranet system within an enterprise. Currently, most Internet broadcasting servers use the **TCP/IP** or the **UDP** instead of the **IP multicasting** to thereby receive **broadcasting data by directly** connecting to a server and a terminal. The above-mentioned Internet broadcasting method gives large communication load to the server and has difficulty in the...regions B and C need optional broadcasting transmission function. A terminal 43 in region B and a terminal 47 in region C carry out the **broadcasting transmission** function. They receive **broadcasting data directly** from the Internet **broadcasting** server 10 by using **TCP/IP** or **UDP** and transmit the data to the adjacent terminals by using the **IP multicasting**. Therefore, in Fig. 1, among the eight terminals 40 to 47, if... the above-mentioned method, a region which is difficult in performing the **IP multicasting**, can directly connected to the internet broadcasting server 10 by using **TCP/IP** or **UDP** and the terminals 43 and 47 transform the data to the **IP multicasting** data to re-transmit it to the adjacent terminals. The distributed **IP multicasting** method for internet broadcasting system can reduce **transmission** load in server by **directly transmit data** to a smaller number of terminals and increase number of terminals which can receive a broadcasting with the **TP multicasting**. Especially, the method is advantageous...

13/3K/40 (Item 40 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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**VIRTUAL PORT MULTIPLEXING****Patent Applicant/ Patent Assignee:**

- **EJASENT INC**  
2490 Charleston Road, Mountain View, CA 94043; US; US(Residence); US(Nationality); (For all designated states except: US)

**Patent Applicant/ Inventor:**

- **HIPP Burton A**  
4117 E. Haack Ct., Elk Grove, CA 95758; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **CASERZA Steven F (agent)**  
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	Country	Number	Kind	Date
Patent	WO	200126267	A1	20010412
Application	WO	2000US27596		20001005
Priorities	US	99157727		19991005
	US	99157728		19991005
	US	99157729		19991005
	US	99157833		19991005
	US	99157834		19991005

**Detailed Description:**

what type of port each port is. For example, port 80 is used for HTTP traffic. Ports are utilized in several different protocol networks including TCP/IP and UDP networks. When a first application running on a first computer **transmits data directed** to a second application on a second computer, the first application will **transmit the data directed** at a predefined port to be received by the second computer and application. If the port is unknown, the data cannot be forwarded. Further, if...

---

13/3K/47 (Item 47 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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**CONCURRENT IP BASED VOICE AND DATA SERVICES VIA WIRELESS NETWORKS****Patent Applicant/ Patent Assignee:**

- INTERNATIONAL BUSINESS MACHINES CORPORATION
- IBM UNITED KINGDOM LIMITED

**Inventor(s):**

- ANGWIN Alastair John
- BEVIS David George

	Country	Number	Kind	Date
Patent	WO	200041416	A1	20000713
Application	WO	99GB4304		19991217
Priorities	GB	9959		19990105

**Detailed Description:**

function). The following description of the present invention will refer to WAP by way of example, but a similar approach could be adopted using conventional TCP/IP or UDP/IP communications over an HTTP session and an HTML, XML or XMLScript based application. Now consider an enhanced voice based service, such as a voicemail service as **provided** by IBM Corporation's **DirectTalk** products. when **voice** messages arrive in the user's intelligent voice message service, the messages are recorded and via some method irrelevant to this discussion the callers identities...

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13/3K/49 (Item 49 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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**METHODS AND APPARATUS FOR PROVIDING IMPROVED QUALITY OF PACKET TRANSMISSION IN APPLICATIONS SUCH AS INTERNET TELEPHONY****Patent Applicant/ Patent Assignee:**

- AT & T CORP

**Inventor(s):**

- KATSEFF Howard Paul
- ROBINSON Bethany Scott

	Country	Number	Kind	Date
Patent	WO	9842107	A1	19980924
Application	WO	98US4091		19980317
Priorities	US	97819617		19970317

#### Detailed Description:

apparatus to provide Internet telephony data packet transmission which can accommodate a low-bandwidth connection between a user and a local host, but which can provide high-quality data transmission with low latency. The present invention provides methods and apparatus for protocol conversion between transmission control protocol ("TCP") and user datagram protocol ("UDP"). In one aspect of the present invention, TCP is used between the user and the local host, TCP is suitable for use in a modem link between a local user and an Internet Service Provider (ISP), because the modem itself provides a reliable...

DIALOG(R) File 348: EUROPEAN PATENTS

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19/3K/1 (Item 1 from file: 348)

#### DATA REFERENCING SYSTEM

##### Patent Assignee:

- Thomson Licensing (7064730)  
46, quai Alphonse Le Gallo; 92100 Boulogne-Billancourt (FR)  
(Proprietor designated states: all)

##### Inventor:

- COLAS NOBLECOURT, Christophe, Canal+ Techno.S.A.  
34 Place Raoul Dautry; F-75516 Paris Cedex 15; (FR)
- RAKOTOMAVO, Setra, Canal+ Techno. S.A.  
34 Place Raoul Dautry; F-75516 Paris Cedex 15; (FR)

##### Legal Representative:

- Kohrs, Martin (88662)  
Thomson multimedia 46, quai A. Le Gallo; 92100 Boulogne-Billancourt; (FR)

	Country	Number	Kind	Date
Patent	EP	1371228	A2	20031217 (Basic)
Patent	EP	1371228	B1	20070523
	WO	2002076102		20020926
Application	EP	2002735768		20020321
	WO	20021B2141		20020321
Priorities	EP	2001400737		20010321

**Specification:**

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DIALOG(R) File 348: EUROPEAN PATENTS

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19/3K/5 (Item 5 from file: 348)

### **Symmetric multiprocessing system with unified environment and distributed system functions**

#### **Patent Assignee:**

- **Packard Bell NEC, Inc. (2395070)**  
6041 Variel Avenue; Woodland Hills, CA 91367 (US)  
(Proprietor designated states: all)

#### **Inventor:**

- **Bertone, James**  
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- **Mc Nally, Lance**  
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- **Murray, Thomas L. Jr.**  
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- **Nibby, Chester Jr.**  
183 Bridge Street; Beverly, Massachusetts 01915; (US)
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34 Colonial Drive; Westford, MA 01886-4503; (US)
- **Sanfacon, Marc**  
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- **Shen, Jian-Kuo**  
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- **Somers, Jeffrey**  
132 Bowden Street, Apt. 208; Lowell, Massachusetts 01852; (US)
- **Steiner, G. Lewis**  
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#### **Legal Representative:**

- **Evens, Paul Jonathan et al (83934)**  
Maguire Boss, 5 Crown Street; St. Ives, Cambridgeshire PE27 5EB; (GB)

	Country	Number	Kind	Date	
Patent	EP	1071018	A2	20010124	(Basic)
Patent	EP	1071018	A3	20010207	
Patent	EP	1071018	B1	20030910	
Application	EP	2000203455		19940428	
Priorities	US	57052		19930430	

#### Specification:

the DRAMs of the MSEs 36. As shown, XAMPDI 78 has a bidirectional data interface with Data Buses 26 of XA-MP Bus 12 for **transferring** 64 bits of **data** (BD) and 8 bits of data parity (BDP) with XA-MP Bus 12. XAMPDI 78 further has a bidirectional Bus Uncorrected Data Error (BUDE#) signal line interface with a control line associated with XA-MP Bus 12 to receive and provide a signal indicating an uncorrected error in the **data** being **provided** to or read from the memory. MDP 40's **data** interface with MSE's 36 is **provided** through DRMI 80 and is comprised of two bidirectional 64 bit wide data paths to and from the DRAMs of MSEs 36, referred to in ...

DIALOG(R) File 348: EUROPEAN PATENTS

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19/3K/13 (Item 13 from file: 348)

#### Switch control methods and apparatus.

#### Patent Assignee:

- **AT&T Corp.** (589370)  
32 Avenue of the Americas; New York, NY 10013-2412 (US)  
(applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)

#### Inventor:

- **Beuning, Brian George**  
3145 Village Green; Aurora, Illinois 60504; (US)
- **Bloom, Seymour**  
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- **Bright, Ryamond Eugene, Jr.**  
23620 Douglas Drive; Plainfield, Illinois 60544; (US)
- **Greenspan, Steven Lloyd**  
640 S. Humphrey Avenue; Oak Park, Illinois 60304; (US)
- **Marks, Joel M.**  
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- **Morgan, Michael James**  
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- **Scale, Timothy Jerome**  
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- **Wong, Bruce Fat**  
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#### Legal Representative:

- **Watts, Christopher Malcolm Kelway, Dr. et al (37392)**  
AT&T (UK) LTD. AT&T Intellectual Property Division 5 Mornington Road; Woodford Green Essex IG8 0TU; (GB)

	Country	Number	Kind	Date	
Patent	EP	505092	A2	19920923	(Basic)
Patent	EP	505092	A3	19940511	
Application	EP	92302141		19920312	
Priorities	US	672065		19910318	

#### Specification:

to access any other data items (e.g., stack backtrace data), the application level debugger accepts commands for the underlying C/C++ debugger that is **provided** by the control computer vendor.

**Data** dumps can be viewed on the screen or directed to an output file. The SLL debugger also allows the application programmer, when testing, to send events via **BDP** 1803 to the Service Package that is being debugged. These event reports can contain the **data** that would be **provided** if the event were delivered from service node 501 to the application program. The programmer can test the software that designed to respond to an...

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DIALOG(R) File 348: EUROPEAN PATENTS

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19/3K/15 (Item 15 from file: 348)

#### Network adapter

#### Patent Assignee:

- ADVANCED MICRO DEVICES, INC.** (328120)  
 901 Thompson Place P.O. Box 3453; Sunnyvale, CA 94088-3453 (US)  
 (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

#### Inventor:

- Firoozmand, Farzin**  
 19872 Portal Plaza; Cupertino, California; (US)
- Childers, Brian**  
 3450 Granada Avenue, 77; Santa Clara, California; (US)

#### Legal Representative:

- Wright, Hugh Ronald et al (38051)**  
 Brookes & Martin 52/54 High Holborn; London WC1V 6SE; (GB)

	Country	Number	Kind	Date	
Patent	EP	459757	A2	19911204	(Basic)
Patent	EP	459757	A3	19930303	
Patent	EP	459757	B1	19990728	
Application	EP	91304809		19910528	
Priorities	US	529366		19900529	

#### Specification:

is data indicating transfer condition of data to any one of the queues, viz, the sync queue and the three levels of asynchronous queues, to **transfer data** to the medium. The **transfer** conditions

provided by the medium access controller 120 informs the network DMA controller 124 that controller 120 has the token and is currently is transmitting that particular... ..being granted by the medium access controller 120. Together with this signal, buffer memory 126 is enabled, and data is present on BD (bus data), BDP (bus data priority) and BDTAG buses. RDATA is asserted when the medium access controller 120 has stored received data from the network into buffer memory... ..120. The medium access controller 120 stores network data in buffer memory 126 at the address specified by data on the BADDR bus, and the data stored in buffer thereafter is transferred to the network DMA controller 124, in response to an assertion by the medium access controller 120 of the READ terminal of the buffer. Further...

DIALOG(R)File 348: EUROPEAN PATENTS  
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19/3K/17 (Item 17 from file: 348)

**Processor with plural microprogrammed units and with a mechanism for anticipated instruction execution.**

**Patent Assignee:**

- **BULL S.A. (244477)**  
Tour BULL, 1, place Carpeaux; F-92800 Puteaux (FR)  
(applicant designated states: DE;ES;FR;GB;IT;NL)

**Inventor:**

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- **Obrebska, Monika**  
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- **Vallet, Philippe**  
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**Legal Representative:**

- **Colombe, Michel et al (46243)**  
Direction de la Propriete Intellectuelle BULL SA Poste courrier:LV 59C18 68 route de Versailles; F-78430 Louveciennes; (FR)

	Country	Number	Kind	Date	
Patent	EP	435718	A1	19910703	(Basic)
Patent	EP	435718	B1	19950927	
Application	EP	90403496		19901207	
Priorities	FR	8916952		19891221	

**Specification:**

1) par les lignes de transfert de propriete ALGO-OWN reliant les unites entre elles. Dans le cas simplifie ou seules les unites EAD et BDP ont besoin d'echanger ces informations. ALGO- SEND, ALGO-OWN et ALGO-EMPTY sont constitues chacuns par une seule ligne. Grace aux signaux precedemment decrits que les unites et l'antememoire peuvent s...



**FLOW CONTROL BETWEEN PERFORMANCE ENHANCING PROXIES OVER VARIABLE  
BANDWIDTH SPLIT LINKS**

**Patent Applicant/ Patent Assignee:**

- **EMS TECHNOLOGIES INC**  
2850 Colonnades Court NW, Norcross, GA 30071; US; US(Residence); US(Nationality)

**Inventor(s):**

- **NEALE Jason**  
2850 Colonnades Court NW, Norcross, GA 30071; US
- **PETHER Andrew M**  
2850 Colonnades Court NW, Norcross, GA 30071; US
- **MOHSEN Abdul-Kader**  
2850 Colonnades Court NW, Norcross, GA 30071; US
- **BEGIN Guy**  
2850 Colonnades Court NW, Norcross, GA 30071; US

**Legal Representative:**

- **CROWSON Celine Jimenez(et al)(agent)**  
Hogan & Hartson, L.L.P., 555 Thirteenth Street, N.W., Washington, DC 20004; US

	Country	Number	Kind	Date
Patent	WO	200343285	A2-A3	20030522
Application	WO	2002US36282		20021113
Priorities	US	2001333608		20011113

**Detailed Description:**

packets must be halted while the lost packet is retransmitted. Effectively, a single RTT pause is inserted for any packet lost once. If a double BDP buffer is used, then virtually any number of packets can be lost once with the FP and the connection will still send new data at full speed if available. The following calculations are for example only, but an attempt has been made to make this example as efficient as...

**PROVIDING SERVICES WITH SERVER IN TCP/ IP NETWORK**

**Patent Assignee:**

- **Domiras Oy (101190393)**  
Runkotie 7; 01730 Vantaa (FI)  
(Proprietor designated states: all)

**Inventor:**

- **MAKIPAA, Risto**  
Ylatie 11; FIN-50670 Otava; (FI)

**Legal Representative:**

- **Akras, Tapio Juhani (100039754)**  
Kolster Oy Ab, Iso Roobertinkatu 23, P.O. Box 148; 00120 Helsinki; (FI)

	Country	Number	Kind	Date	
Patent	EP	1410595	A1	20040421	(Basic)
Patent	EP	1410595	B1	20100929	
	WO	2001078350		20011018	
Application	EP	2001925614		20010406	
	WO	2001FI343		20010406	
Priorities	FI	20637		20000407	

**Specification:**

in the header of a protocol data unit (a packet or a frame) according to the particular service, the API MUX receives the API identifier **directly** in the application **data**. If, again, the API identifier is received in the header fields of the IP or transport layer, a lower protocol module extracts the API identifier from the IP packet and forwards it to the API MUX module. Generally speaking, the application software and the related "API software", possibly even a **TCP/UDP** module, are selected, downloaded or configured according to a received API identifier. In the present application, the term "application programming interface API" should be understood ... ..however, is that the TCP program module comprises two ports designated by port number X and two ports designated by port number Y. Similarly, the **UDP** program module comprises two ports designated by received port number X. The **TCP** program module selects a correct port on the basis of both the received port number and the received identifier ID. If the received identifier is ID1 and the received port number is X, the application layer **data** is **directed** to port X, which is connected to application 2 through the interface API1. If the received identifier is ID2 and the port number is X...

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DIALOG(R) File 348: EUROPEAN PATENTS

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24/3K/5 (Item 5 from file: 348)

**MULTIPLE FACILITY OPERATING SYSTEM ARCHITECTURE****Patent Assignee:**

- **AUSPEX SYSTEMS, INC.** (1348490)  
2952 Bunker Hill Lane; Santa Clara, CA 95054 (US)  
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

**Inventor:**

- **HITZ, David**  
925 Wolfe Road Apartment 23; Sunnyvale, CA 94086; (US)
- **SCHWARTZ, Allan**  
12241 Marilla Drive; Saratoga, CA 95070; (US)

- **LAU, James**  
11570 Upland Way; Cupertino, CA 95014; (US)
- **HARRIS, Guy**  
707 Continental Circle Number 1237; Mountain View, CA 94040; (US)

**Legal Representative:**

- **Barnard, Eric Edward et al (28021)**  
BROOKES & MARTIN High Holborn House 52/54 High Holborn; London WC1V 6SE; (GB)

	Country	Number	Kind	Date	
Patent	EP	490980	A1	19920624	(Basic)
Patent	EP	490980	A1	19930421	
Patent	EP	490980	B1	19990506	
	WO	9104540		19910404	
Application	EP	90914006		19900820	
	WO	90US4701		19900820	
Priorities	US	404885		19890908	

**Specification:**

the messaging kernel layer 194, initiated in response to calls directly from the data link layer 206 are logically directed by the messaging kernel 178 **directly** to the **data** link layer 170 of a network communications facility. Similarly, calls from the IP layer 172, recognized as not NFS requests of a local file system, are passed through the messaging kernel layers 178 and 194 directly to the TCP/UDP layers 204. In accordance with the preferred embodiments of the present invention, the responses by the host facility 168 in such circumstances are processed back... the messaging kernel layer 178 directs an appropriate update to the route database 174. The system call layer 212 also provides for access to the TCP/UDP layers via a conventional interface layer 214 known as sockets. Low level application programs may use the system call layer 212 to **directly** access the **data** storage system by calling directly on the device driver 200. The system call layer also interfaces with the VFS 196 for access to or by...

24/3K/10 (Item 10 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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**ENHANCEMENT OF RESOURCE RESERVATION PROTOCOL ENABLING GUARANTEED QUALITY OF SERVICE SHORT-CUT INTERNET PROTOCOL CONNECTIONS OVER A SWITCHED NETWORK**

**Patent Applicant/ Patent Assignee:**

- **SBC PROPERTIES L P**  
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US(Residence); US(Nationality)

**Inventor(s):**

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10520 Oak View Drive, Austin, TX 78759; US

**Legal Representative:**

- **BERNSTEIN Bruce H(et al)(agent)**  
Greenblum & Bernstein, P.L.C., 1950 Roland Clarke Place, Reston, VA 20191; US

	Country	Number	Kind	Date
Patent	WO	200414000	A1	20040212
Application	WO	2003US16253		20030702
Priorities	US	2002207906		20020731
	US	2002207886		20020731
	US	2002207880		20020731
	US	2002207905		20020731

**Detailed Description:**

SVC through the WAN interface, identified by an associated VP1 and VCI. As indicated by the asterisks in the third row of Table 5, incoming **data directed** to a port other than the **TCP/ UDP** port, or indicating destination and source IP addresses other than the destination end-system 20 and the originating endsystem 20, respectively, invokes the default ATM...

24/3K/12 (Item 12 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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**NETWORK PORT PROFILING**

**Patent Applicant/ Patent Assignee:**

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**Patent Applicant/ Inventor:**

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**Legal Representative:**

- **HARRIS John R (agent)**  
Morris, Manning & Martin, LLP, 1600 Atlanta Financial Center, 3343 Peachtree Road, NE, Atlanta, GA 30326; US

	Country	Number	Kind	Date
Patent	WO	200261510	A2-A3	20020808
Application	WO	2002US2871		20020131
Priorities	US	2001265194		20010131

**Detailed Description:**

that many of the fields are counters for each host, e.g., the number of packets and bytes sent, the number of packets with various TCP flag-bit combinations sent for TCP flows, the number of ICMP "port-unavailable"s for a UDP flow. Also bitmaps can be filled in, such as the bitnap of all TCP flags seen which has been bitwise OR'ed with the TCP flag field of each TCP packet. Data is filled in for the source (originating) host. The packet classifier thread 610 also adds some **data directly** to the host data structure 166. Most of this data could be added later by the flow collector thread 620 (such as bytes sent by each host), but adding...

24/3K/13 (Item 13 from file: 349)  
 DIALOG(R) File 349: PCT FULLTEXT  
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**SERVICE MONITORING SYSTEM****Patent Applicant/ Patent Assignee:**

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	Country	Number	Kind	Date
Patent	WO	200242923	A1	20020530
Application	WO	2001US43130		20011120
Priorities	US	2000715123		20001120
	US	2001279723		20010330

**Detailed Description:**

to upgrade or expand capacity. Similarly, Voice-over-IP (VoIP) systems can be measured by a measurement agent by connecting to the service (via a TCP/UDP connection over IP). Performance of VoIP systems can be measured in terms of response time, availability, quality, and data integrity. In addition to **directly gathering information** from a monitored server (e.g., through management agents), the monitoring computer system 100 can also download relevant performance information from external data sources (programs...

## PROXY INTERNET BROWSING

Patent Applicant/ Patent Assignee:

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Inventor(s):

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	Country	Number	Kind	Date
Patent	WO	200175609	A1	20011011
Application	WO	2000US8556		20000331
Priorities	US	2000540558		20000331

### Detailed Description:

the related UDP/IP, is a major factor in the rapid growth of the Internet. The IP protocol controls the routing of data and the TCP or UDP protocol controls the transfer of data. TCP/UDP/IP provides a common means of interconnection through packet transfer devices known as gateways, bridges, routers and switches. These devices are specialized Internet working computers that connect two or more networks and route packets of **data** between them. Each **direct** connection to the Internet requires a unique numerical address. Every device or user that connects directly to the Internet must obtain an IP address from... ..to handling requests, commands, and information including data transfers relative to end-user appliances, certain hardware and software is contained in each appliance. For receiving **information**, appliances may connect **directly** to the Internet or connect to a local server with an Internet connection, or Web server. A TCP/UDP/IP stack acts on a received request or command by performing a number of functions. A received command or packet of file data has an...

## A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR MANAGING NETWORK DATA IN A HYBRID NETWORK ARCHITECTURE

Patent Applicant/ Patent Assignee:

- **AC PROPERTIES B V**

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	200074324	A1	20001207
Application	WO	2000US15238		20000602
Priorities	US	99324628		19990602

**Detailed Description:**

MPEG Motion Pictures Expert Group, a standards body under the International Standards Organization(ISO), Recommendations for compression of digital Video and Audio including the bit stream but not the compression algorithms.

SLIP Serial Line Internet Protocol

RSVP Resource Reservation Setup Protocol

UDP User Datagram Protocol

The popularity of the TCP/IP protocols on the Internet grew rapidly because they met an important need for worldwide data communication and had several important characteristics that allowed them...

24/3K/27 (Item 27 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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**METHOD AND APPARATUS FOR ACCESS TO, AND DELIVERY OF, MULTIMEDIA INFORMATION**

**Patent Applicant/ Patent Assignee:**

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**Patent Applicant/ Inventor:**

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	Country	Number	Kind	Date
Patent	WO	200072168	A1	20001130
Application	WO	2000US13652		20000517
Priorities	US	99315924		19990520
	US	2000560048		20000427

**Detailed Description:**

uses are described below.

Parameter sample value Usage control server: 19,adams I Identifies the control server host and its ID listening port number: 83 **TCP** and **UDP** port to listen on logging directory: **directory** where to log **information** log configuration: true log configuration on startup log warnings: true log warnings log informational messages: true log informational messages log usage: true log audio server...their uses are described below Parameter sample value Usage audio server: 19, adams I Identifies the audio server and its ID listening port number: 83 **TCP** and **UDP** port to listen on mode: voip determines which mode the audio server or phone is running in logging **directory**: **directory** for logging **information** log configuration: true log configuration on startup log warnings: false whether or not to log warnings log informational messages: true log informational messages log requests...

24/3K/30 (Item 30 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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**SOFTWARE INTERFACE BETWEEN SWITCHING MODULE AND OPERATING SYSTEM OF A DATA PACKET SWITCHING SYSTEM**

**Patent Applicant/ Patent Assignee:**

- **SUN MICROSYSTEMS INCORPORATED**

**Inventor(s):**

- **RAMASWAMY Kumar**
- **LIN Cher-Wen**
- **RETTBERG Randall David**
- **RAHMAN Mizanur Mohammed**

	Country	Number	Kind	Date
Patent	WO	200030294	A2	20000525
Application	WO	99US27103		19991115
Priorities	US	98193652		19981117

**Detailed Description:**

a network driver 59. The protocol module 55 serves as a data interface for the user application programs 51. The protocol module 55 converts received **data** packets that are **directed** to one of the user application programs 51 from the **TCP/IP** or **UDP/IP** protocols into a format usable by the user



application programs. Specifically, the protocol module 55 strips off the MAC header 20d, IP header 20c...